

WAYNE STATE UNIVERSITY

PRENTIS BUILDING RENOVATION

DETROIT, MI 48202



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WAYNE STATE
UNIVERSITY
Facilities Planning and Management
5454 Cass Avenue
Detroit, MI 48202



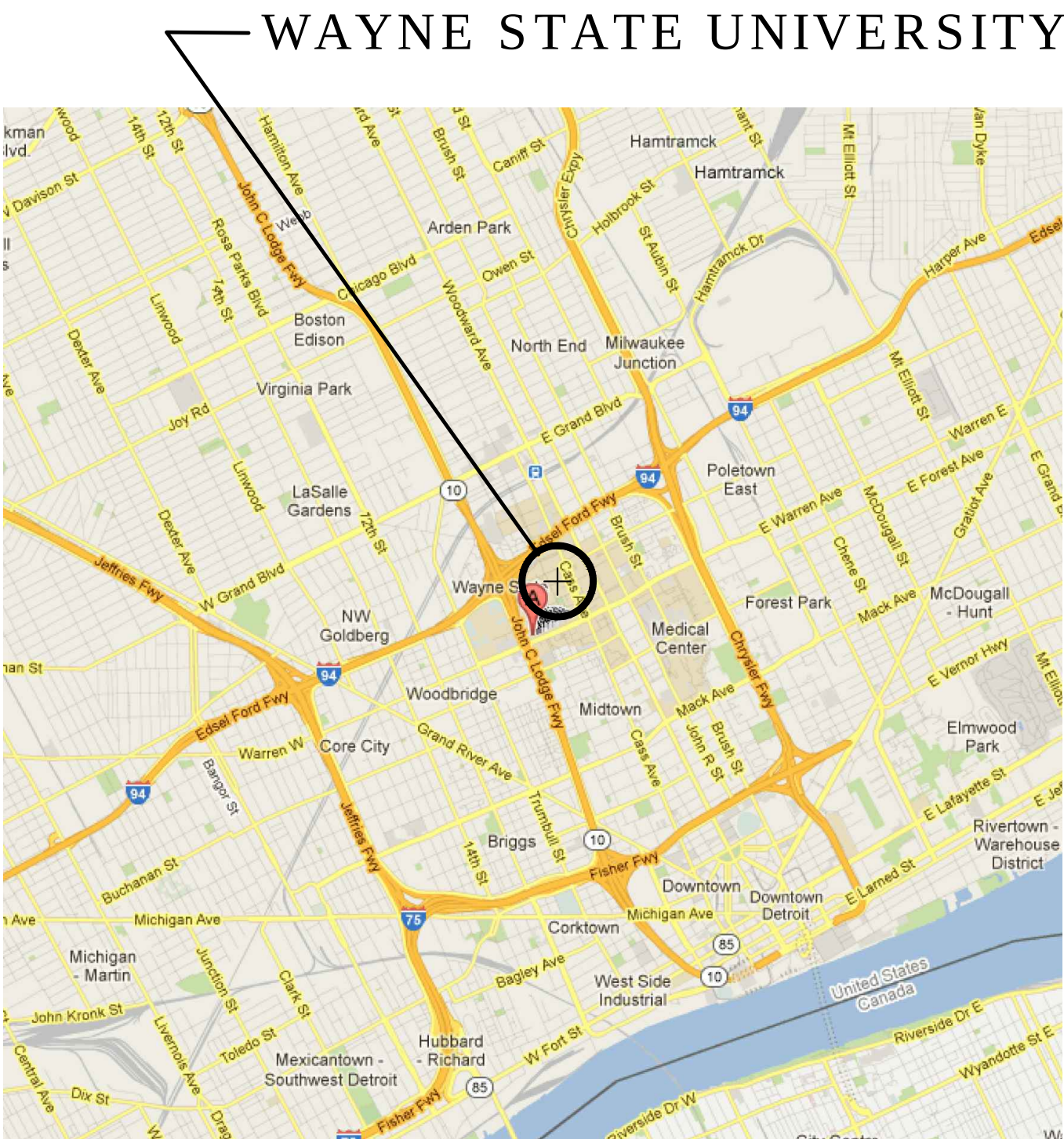
2215 COLE STREET
BIRMINGHAM, MICHIGAN 48009
TELEPHONE: 248.646.5765
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NM Project Number - 18113.0

consultants:

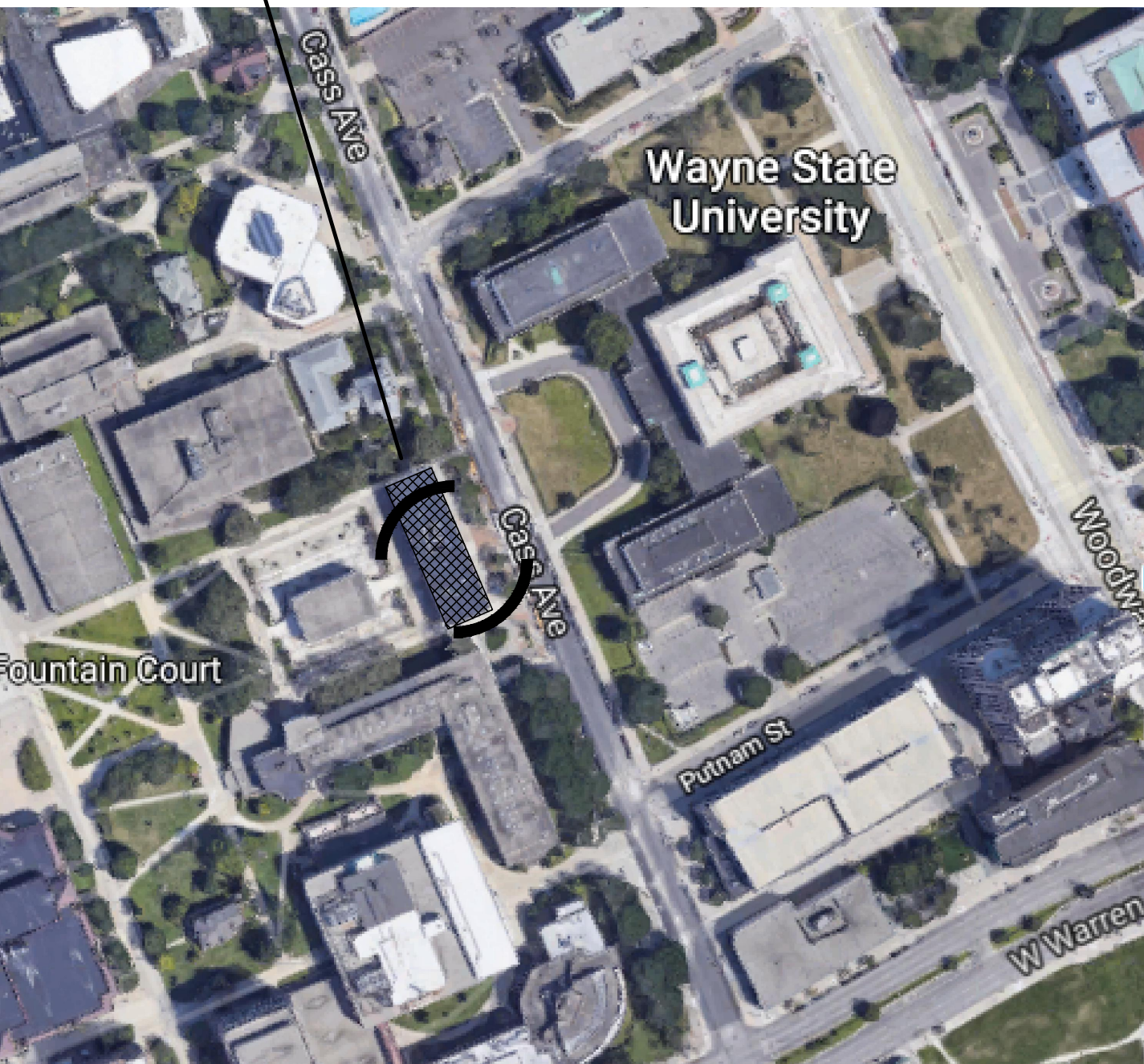
ARCHITECTURAL		MECHANICAL		ELECTRICAL	
T-1	TITLE SHEET, DRAWING INDEX & LOCATION & VICINITY MAPS	MH000	VENTILATION COVER SHEET	E000	ELECTRICAL COVER SHEET
A-002	ABBREVIATIONS, DRAWING SYMBOLS STANDARDS& STANDARD MOUNTING HEIGHTS	MHD101B	BASEMENT FLOOR DEMOLITION - VENTILATION	ED101B	BASEMENT FLOOR DEMOLITION - ELECTRICAL
A-20	ROOM FINISH SCHEDULE	MHD103	THIRD FLOOR DEMOLITION - VENTILATION	ED-101	FIRST FLOOR DEMOLITION- ELECTRICAL
A-30	DOOR SCHEDULE & WALL TYPES	MH101B	BASEMENT FLOOR PLAN - VENTILATION	ED101M	MEZZANINE FLOOR DEMOLITION - ELECTRICAL
AD-101-B	PRENTIS BUILDING BASEMENT FLOOR PLAN - DEMOLITION WORK	MH103	THIRD FLOOR PLAN - VENTILATION	ED103	THIRD FLOOR DEMOLITION - ELECTRICAL
AD-101	PRENTIS BUILDING 1ST FLOOR PLAN - DEMOLITION WORK	MH300	VENTILATION SCHEDULES & DETAILS	EL101B	BASEMENT FLOOR PLAN - LIGHTING
AD-101-M	PRENTIS BUILDING MEZZANINE FLOOR PLAN - DEMOLITION WORK	P000	PLUMBING COVER SHEET	EL-101	FIRST FLOOR PLAN- LIGHTING
AD-103	PRENTIS BUILDING 3RD FLOOR PLAN - DEMOLITION WORK	PD103	THIRD FLOOR DEMOLITION - PLUMBING	EL101M	MEZZANINE FLOOR PLAN - LIGHTING
AD-104-B	PRENTIS BUILDING BASEMENT FLOOR REFLECTED CEILING PLAN - DEMOLITION WORK	P101B	BASEMENT FLOOR PLAN - PLUMBING	EL103	THIRD FLOOR PLAN - LIGHTING
AD-105	PRENTIS BUILDING 3RD FLOOR REFLECTED CEILING PLAN - DEMOLITION WORK	P101M	MEZZANINE FLOOR PLAN - PLUMBING	EP101B	BASEMENT FLOOR - POWER
A-201-B	PRENTIS BUILDING BASEMENT FLOOR PLAN - NEW WORK	P103	SECOND AND THIRD FLOOR PLAN - PLUMBING	EP-101	FIRST FLOOR - POWER
A-201	PRENTIS BUILDING 1ST FLOOR PLAN -NEW WORK	P300	PLUMBING DETAILS	EP101M	MEZZANINE FLOOR PLAN - POWER
A-201-M	PRENTIS BUILDING MEZZANINE FLOOR PLAN - NEW WORK	P500	PLUMBING SCHEDULES	EP103	THIRD FLOOR PLAN - POWER
A-203	PRENTIS BUILDING 3RD FLOOR PLAN - NEW WORK	MP000	PIPING COVER SHEET	EP-300	POWER DETAILS
A-301-B	PRENTIS BUILDING BASEMENT FLOOR REFLECTED CEILING PLAN - NEW WORK	MPD101B	BASEMENT FLOOR DEMOLITION - PIPING	ES101B	BASEMENT FLOOR - SYSTEMS
A-303	PRENTIS BUILDING 3RD FLOOR REFLECTED CEILING PLAN - NEW WORK	MP101B	BASEMENT FLOOR - PIPING	ES101	FIRST FLOOR PLAN - SYSTEMS
A-701	PRENTIS BUILDING INTERIOR ELEVATIONS, SECTIONS, AND DETAILS	MP103	SECOND AND THIRD FLOOR PLAN - PIPING	ES101M	MEZZANINE FLOOR PLAN - SYSTEMS
		F000	FIRE PROTECTION COVER SHEET	ES103	THIRD FLOOR - SYSTEMS
		F101B	BASEMENT FLOOR - FIRE PROTECTION	ES300	SYSTEM DETAILS
				T000	TECHNOLOGY COVER SHEET
				TD101B	BASEMENT FLOOR DEMOLITION - TECHNOLOGY
				TD103	THIRD FLOOR DEMOLITION - TECHNOLOGY
				T101B	BASEMENT FLOOR PLAN - TECHNOLOGY
				T101	FIRST FLOOR PLAN - TECHNOLOGY
				T103	THIRD FLOOR PLAN - TECHNOLOGY
				T200	TECHNOLOGY DETAILS, RISERS AND SCHEDULES

ALTERNATES

- REPLACE ALL CEILING TILE THROUGH OUT PROJECT
- DEDUCT NEW CEILING IN TEACHING LAB 304. PROVIDE FOR REPAIR OF GRID AND NEW TILE AS NEEDED.
- DEDUCT NEW COUNTER TOPS IN WORK ROOM 300.01. REUSE EXISTING COUNTER TOPS FROM RACKHAM



PROJECT SITE :
PRENTIS BUILDING



WORK SCOPE

RENOVATE PORTION OF PRENTIS BUILDING (BASEMENT, FIRST FLOOR, MEZZANINE, AND THIRD FLOOR) INTO NEW OFFICES, CLASSROOMS, AND LABS, RENOVATE THIRD FLOOR RESTROOM INTO UNISEX ADA COMPLIANT RESTROOM.

APPLICABLE	CODES (FOR CONTRACT DOCUMENTS)
BUILDING CODE:	MICHIGAN REHABILITATION CODE FOR EXISTING BUILDING/ 2015
MECHANICAL CODE:	STATE OF MICHIGAN MECHANICAL CODE/ 2015
ELECTRICAL CODE:	STATE OF MICHIGAN ELECTRICAL CODE /2014
PLUMBING CODE:	MICHIGAN PLUMBING CODE/ 2015
FIRE SAFETY CODE:	NFPA 101 LIFE SAFETY CODE
	NFPA 13/ 2007 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
PUBLIC HEALTH CODE:	MDCIS MINIMUM DESIGN STANDARDS FOR CONSTRUCTION AND EQUIPMENT FOR HEALTHCARE FACILITIES IN MICHIGAN
BARRIER FREE CODES:	UFAS, AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES, MICHIGAN BARRIER FREE - 2010
USE GROUP:	BUSINESS - B
CONSTRUCTION TYPE:	1A NON-COMBUSTIBLE
PROJECT	AREA SUMMARY
PRENTIS BUILDING RENOVATION	GROSS AREA - 13,000 GSF ± No code variance requests are anticipated. Contractor to coordinate WORK SCOPE and construction activities with WSU construction Project Manager :



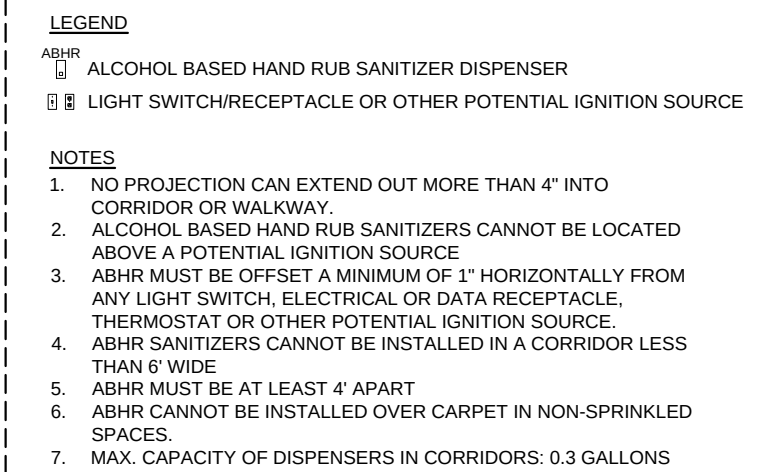
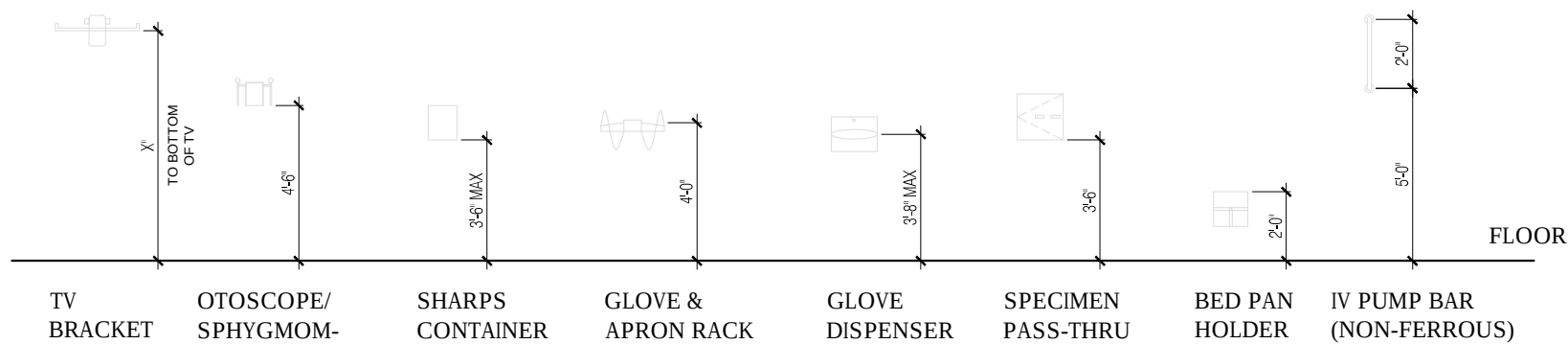
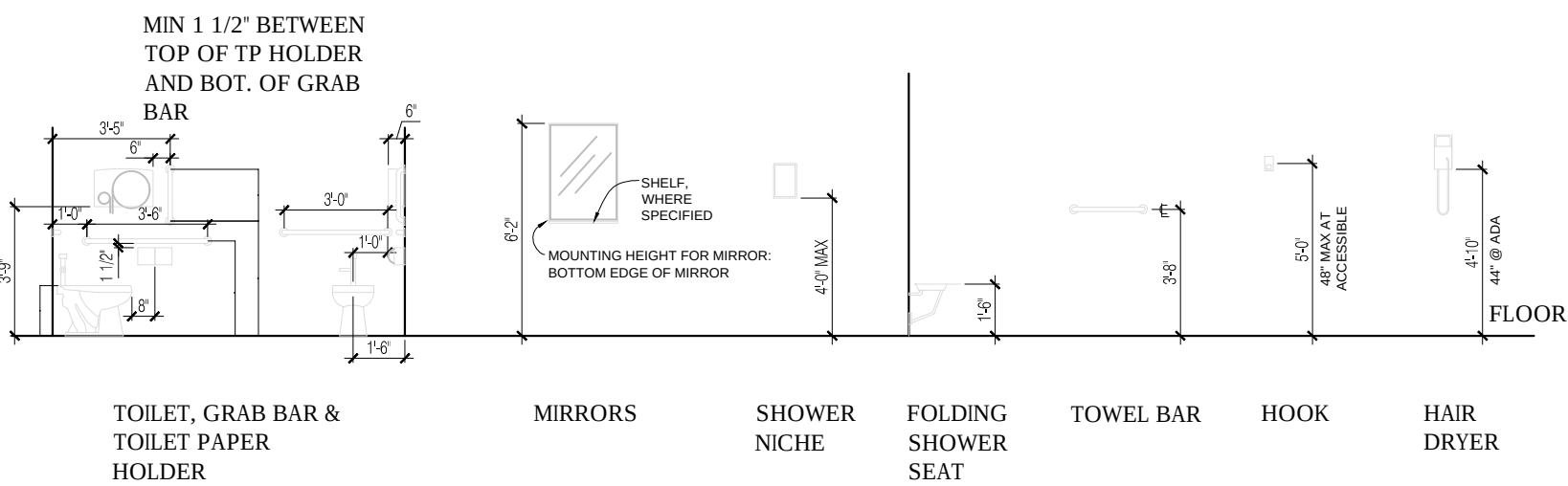
WAYNE STATE
UNIVERSITY

designed	DB
drawn	AG
coordination checked	JK
checked	JK approved JK
location	Prentis Building

project:
Prentis Building - Rackham
Relocation

sheet title:
Title Sheet, Drawing Index and
Location & Vicinity Maps

project number: sheet number:
WSU : 00 T-1



- ### REFLECTED CEILING PLAN LEGEND

NIAGARA
MURANO
ARCHITECTURE
2215 COLE STREET
BIRMINGHAM, MICHIGAN 48009
TELEPHONE: 248.646.5765
FACSIMILE: 248.646.5813

NM Project Number - 18113.0



drawn
AG

checked	sr	approved	sr
location	Dreptic Building		

project:

Prentiss Building - Backham

Relocation

sheet title:

Abbreviations Drawing Symbols

Standard & Standard Mounting

Heights

project number: sheet number:
WSH: 00

A-002

A-002

ROOM FINISH SCHEDULE

[illegible]

LEGEND OF ABBREVIATIONS

FLOOR DATA		BASE DATA		WALL DATA		CEILING DATA		ROOM ACCESSORIES							
MATERIAL		MATERIAL		MATERIAL		MATERIAL		ITEM							
CP	CARPET	CP	CARPET	GW	GYPSPUM WALLBOARD	SSTL	STAINLESS STEEL	GW	GYPSPUM WALLBOARD	TTD	TOILET TISSUE DISPENSER				
CPT	CARPET TILE	TER	TERRAZZO	CSP	GYPSPUM PLASTER	GRAN	GRANITE	GP	GYPSPUM PLASTER	HD	ELECTRIC HAND DRYER				
TERR	TERRAZZO	AM	AGGLOMERATED MARBLE	GVP	GYPSPUM VENEER PLASTER	GL	GLASS	GPV	GYPSPUM VENEER PLASTER	TD	PAPER TOWEL DISPENSER				
CV	SHEET VINYL	CT	CERAMIC TILE	GW-LL	GYPSPUM WALLBOARD-LEAD LINED	CW	CURTAIN WALL	PCP	PORTLAN CEMENT PLASTER	WR	WASTE RECEPTACLE				
CT	CERAMIC & PORCELAIN TILE	RSB	RESILIENT SHEET	GWR	GYPSPUM WALLBOARD FIRE-RATED	FAB	FABRIC SCRM	FBR	FIBER REINFORCED GYPSPUM PANEL	WB	TOWEL BARS				
RTT	RESILIENT TILE FLOORING	RSB	RESILIENT SHEET BASE	FWF	FIBER REINFORCED GYPSPUM PANEL	WP	WALL PROTECTION (ACROVYN)	FBR	FIBER REINFORCED GYPSPUM PANEL	SD	SOP DISPENSER				
RSF	RESILIENT SHEET FLOORING	Q	QUARRY TILE	WF	WALL FABRIC	WF	WALL FABRIC		FIRE-RATED						
Q	QUARRY TILE	CON	CONCRETE	QT	QUARRY TILE	QT	QUARRY TILE	ATT	ACOUSTIC TEGULAR TILE	MF	MIRROR, FIXED				
CON	CONCRETE	RTR	RUBBER TREAD & RISER	CT	CERAMIC & PORCELAIN TILE	CT	CERAMIC & PORCELAIN TILE	ACT	ACOUSTIC LAY-IN TILE	FMF	FRAMED MIRROR, FIXED				
RR	RUBBER TREAD & RISER	RF	RUBBER FLOORING	AM	AGGLOMERATED MARBLE	AM	AGGLOMERATED MARBLE	HLIT	HUMIDITY RESISTANT LAY IN TILE	FTMF	FRAMED TILED MIRROR, FIXED				
RF	RUBBER FLOORING	S	SLATE	AB	ACOUSTIC BLOCK - SOUND ABSORBING	AB	ACOUSTIC BLOCK - SOUND ABSORBING	ARJLT	ABUSE RESISTANT LAY IN TILE	MBH	MOP & BROOM HOLDERS				
S	SLATE	W	WOOD	N	NONE	N	NONE	PL	EXPOSED STRUCTURE	CR	SHOWER CURTAIN RODS				
WD	WOOD	R	RUBBER	WD	WOOD	WD	WOOD	EAD	EXPOSED ACOUSTIC DECK	RH	ROBE HOOKS				
N	NONE							EMD	EXPOSED METAL DECK	GBA	GRAB BAR ASSEMBLY				
GRAN	GRANITE TILE	VCB	VINYL COMPOSITE BASE	ARC1	ARCHITECTURAL BLOCK TYPE 'D' TRIM COURSING			AMDB	ACOUSTICAL METAL DECK	SND	SANITARY NAPKIN DISPOSAL				
				ARC1B1	ARCHITECTURAL BLOCK #1 - SPLIT RIB1 5R-1				W ACOUSTIC BATTS	SNV	SANITARY NAPKIN VENDOR				
				ARC2	ARCHITECTURAL BLOCK #2 - SINGLE SCORED FACE			CT	CERAMIC TILE	FS	FOLDING SHOWER SEAT				
				ARC5B	ARCHITECTURAL BLOCK - SINGLE BULLNOSE			N	NONE	CSD	CERAMIC SOAP DISH				
				ARC6B	ARCHITECTURAL BLOCK - DOUBLE BULLNOSE										
				ARC6C	ARCHITECTURAL BLOCK CAP										
				ARC8B	ARCHITECTURAL HALF BLOCK										
				PR	POLY-RESIN										
				FB	FACE BRICK										
				FBTC	FACE BRICK TRIM COURSING										
				EFB	EXISTING FACE BRICK										
				GMF	GROUND FACE MASONRY UNITS										
				GC	GLASS BLOCK										
				CP	PORTLAND CEMENT PLASTER										
FINISH						FRAME DATA		MOUNTING							
S&W	SEAL & WAX	CSH	CONCRETE SEALER/HARDENER	PR	POLY-RESIN			SUS	SUSPENDED						
S	SEAL	TF	TEXTURE FINISH	FB	FACE BRICK			FUR	FURRED						
PRE	PREFINISHED	VC	VINYL COVERED	FBTC	FACE BRICK TRIM COURSING										
W	WAX	CLN	CLEAN	EFB	EXISTING FACE BRICK										
S&S	SEAL & VARNISH	PTM	PATCH TO MATCH	GMF	GROUND FACE MASONRY UNITS										
S&L	SEAL & LACQUER	NW	NO WORK	GC	GLASS BLOCK										
ST&V	STAIN & VARNISH	PC	EXISTING	CP	PORTLAND CEMENT PLASTER										
PT	PAINT														
DOOR CONSTRUCTION		GLASS		DOOR FINISH		LOUVER		FRAME CONSTRUCTION		FINISHES		HARDWARE			
HCW	HOLLOW CORE WOOD	#	GAUGE	SG	STAIN GRADE	W	WOOD	HMW	HOLLOW METAL WELDED	AL	ANODIZED ALUMINUM	WS	WELD SEAM	WINDOW TREATMENTS	
SCW	SOLID CORE WOOD	CF	CLEAR FLOAT	VG	VARNISH GRADE	MP	METAL PRIMED	AL	ALUMINUM	PER	PERMANODIC	WS	WELD SEAM	T	THRESHOLD
AL	ALUMINUM	G	TEMPERED	HB	HARDBOARD	MP/A	METAL PRE-FINISHED	HTD	THERMALLY BROKEN	P	PANT	STRV	STAIN & VARNISH	WS	WEATHER STRIP
HM	HOLLOW METAL	T	TEMPERED GLASS	PFM	PERFORMING FIBERGLASS	AM/A	ANODIZED ALUMINUM	SKB	SOLID WOOD	S&V	SEAL & VARNISH	SS	SOUND STRIP	AS	ASTRAL
IL	INSULATED HOLLOW METAL	L	LAMINATED	PLAM	PLASTIC LAMINATE			HMW	HOLLOW METAL	S&L	SEAL & LACQUER	FRM	FIXED MULLION	W	WEATHER CAP
FRP	FIBERGLASS REINF'D POLYMER	R	REFLECTIVE	AN	ANODIZED ALUMINUM			WEL	WELDED	FM	FIXED MULLION			BFO	BARRIER FREE OPERATOR
		T	TINTED	PER	PERMANODIC			STD	STANDARD	RM	REMOVABLE MULLION			RM	REMOVABLE MULLION
		RI	REFLECTIVE INSULATED	CI	CLEAR INSULATED			HMW-L	HOLLOW METAL WELDED (LEAD)	PL	PLASTIC LAMINATE				
		RI	REFLECTIVE INSULATED	ME	MATCH EXISTING			FRP	FIBERGLASS REINF'D POLYMER						

INDEX OF FINISH MANUFACTURERS

(SHOP DRAWINGS AND SAMPLES MUST BE SUBMITTED FOR FINAL APPROVAL ON ALL INTERIOR FINISHES)

PAINT- PT-1		CARPET TILE - CPT-1	
MANUFACTURER:	SHERWIN WILLIAMS	MANUFACTURER:	BENTLEY
TYPE:	PAIN	TYPE:	TECH UPD8 AFIRMA HARDBACK
COLOR:	SW7568 NEUTRAL GROUND	COLOR:	GEOMETRY 400005
FINISH:	SEMI-GLOSS	SIZE:	18"x36"
PAINT- PT-2		RESILENT TILE FLOORING - RTF-1	
MANUFACTURER:	SHERWIN WILLIAMS	MANUFACTURER:	ARMSTRONG
TYPE:	PAINT	TYPE:	TBD
COLOR:	SW7693 STONEBRIAR	COLOR:	TBD
FINISH:	SEMI-GLOSS	SIZE:	12" x 12"
PAINT- PT-3		ACOUSTIC CEILING TILE - ACT-1	
MANUFACTURER:	SHERWIN WILLIAMS	MANUFACTURER:	ARMSTRONG
TYPE:	PAINT	MODEL:	ULTIMA 1951 BEVELED TEGULAR
COLOR:	SW7006 EXTRA WHITE	COLOR:	WHITE
FINISH:	EXTRA WHITE	SIZE:	24" x 24" (1/2" Grd)
WALL BASE - RB-1			
MANUFACTURER:	ROPPE		
TYPE:	PINNACLE RUBBER BASE		
COLOR:	193 BLACK BROWN		
SIZE:	4"		

WAYNE STATE
UNIVERSITY
Facilities Planning and Management
5454 Cass Avenue
Detroit, MI 48202



consultants:

key plan:

issue:	date:
For Bids	Dec. 11, 2018
Review 100% CD's	Dec. 04, 2018
Owner Review 90% CD's	Nov. 27, 2018
Owner Review 60% CD's	Nov. 13, 2018



WAYNE STATE
UNIVERSITY

designed	DB
drawn	AG
coordination checked	JK
checked	JK
approved	JK
location	Prentis Building

project:

Prentis Building - Rackham Relocation

sheet title:

Room Finish Schedule

project number: sheet number:
WSU : 00

A-20

FOR BIDS

DOOR AND FRAME SCHEDULE																														
NOTE: GENERAL CONTRACTOR TO REVIEW DOOR HARDWARE WITH OWNER PRIOR TO ANY INSTALLATION																														
DWG. No.	DOOR DATA														FRAME DATA										HARDWARE GROUP	No.	REMARKS	Door Undercut		DOOR No.
	DOOR No.	DOOR QTY.	WIDTH	SIZE HEIGHT	THICK.	DOOR TYPE	DOOR MAT.	SERIES	GAUGE	RATING HRS.	GLASS	TRANSOM	LOUVER	FINISH	FRAME TYPE	JAMB DETAIL	FRAME MAT.	HEAD DETAIL	SERIES	RATING HRS.	GLASS	FINISH								
A-201-B	D001.1	1	EX	EX		-	-	-	-	-	-	-	-	-	F1	-	HM	-	-	-	-	-	SMOKE SEAL	1	DOOR TO BE SMOKE TIGHT	-	-	D001.1		
	D001.2	1	EX	EX		-	-	-	-	-	-	-	-	-	F1	-	HM	-	-	-	-	-	SMOKE SEAL	1	SOOR TO BE SMOKE TIGHT	-	-	D001.2		
	D001.3	1	EX	EX		-	-	-	-	-	-	-	-	-	F1	-	HM	-	-	-	-	-	SMOKE SEAL	1	DOOR TO BE SMOKE TIGHT	-	-	D001.3		
	D001.4	1	EX	EX		-	-	-	-	-	-	-	-	-	F1	-	HM	-	-	-	-	-	SMOKE SEAL	1	DOOR TO BE SMOKE TIGHT	-	-	D001.4		
	D001.5	1	EX	EX		-	-	-	-	-	-	-	-	-	F1	-	HM	-	-	-	-	-	SMOKE SEAL	1	DOOR TO BE SMOKE TIGHT	-	-	D001.5		
	D001.6	1	EX	EX		-	-	-	-	-	-	-	-	-	F1	-	HM	-	-	-	-	-	SMOKE SEAL	1	DOOR TO BE SMOKE TIGHT	-	-	D001.6		
	D005.1	1	3'-0"	7'-0"		D1	SCW	-	-	-	-	-	-	-	F1	-	HM	-	-	-	-	-	PASSAGE	2	-	-	-	D005.1		
	D005.2	1	3'-0"	7'-0"		D1	SCW	-	-	-	-	-	-	-	F1	-	HM	-	-	-	-	-	CLASSROOM	3	-	-	-	D005.2		
	D005.3	1	3'-0"	7'-0"		D1	SCW	-	-	-	-	-	-	-	F1	-	HM	-	-	-	-	-	OFFICE	4	-	-	-	D005.3		
	D005.4	1	3'-0"	7'-0"		D1	SCW	-	-	-	-	-	-	-	F1	-	HM	-	-	-	-	-	OFFICE	4	-	-	-	D005.4		
	D023.1	1	3'-0"	7'-0"		D1	SCW	-	-	-	-	-	-	-	F1	-	HM	-	-	-	-	-	CLASSROOM	5	-	-	-	D023.1		
	D025	1	3'-0"	7'-0"		D1	SCW	-	-	-	-	-	-	-	F1	-	HM	-	-	-	-	-	CLASSROOM	5	DOOR TO BE RELOCATED FROM RCKHAM	-	-	D025		
	D030	1	EX	EX		-	-	-	-	-	-	-	-	-	F1	-	HM	-	-	-	-	-	SMOKE SEAL	6	DOOR TO BE SMOKE TIGHT	-	-	D030		
	D040	1	EX	EX		-	-	-	-	-	-	-	-	-	F1	-	HM	-	-	-	-	-	SMOKE SEAL	6	DOOR TO BE SMOKE TIGHT	-	-	D040		
	D300	1	3'-0"	7'-0"		D1	SCW	-	-	-	-	-	-	-	F1	-	HM	-	-	-	-	-	CLASSROOM	7	-	-	-	D300		
	D322.1	1	3'-6"	7'-0"		D1	SCW	-	-	-	-	-	-	-	F1	-	HM	-	-	-	-	-	PRIVACY	8	-	-	-	D022.1		
	D327	1	3'-6"	7'-0"		D1	SCW	-	-	-	-	-	-	-	F1	-	HM	-	-	-	-	-	CLASSROOM	7	-	-	-	D327		
D330	1	3'-0"	7'-0"		-	-	-	-	-	-	-	-	-	F1	-	HM	-	-	-	-	-	SMOKE SEAL	6	DOOR TO BE SMOKE TIGHT	-	-	D330			
D340	1	3'-0"	7'-0"		-	-	-	-	-	-	-	-	-	F1	-	HM	-	-	-	-	-	SMOKE SEAL	6	DOOR TO BE SMOKE TIGHT	-	-	D340			

DOOR REMARKS:

- Contractor to coordinate with WSU reuse of existing doors and frames from storage. Verify quantity, size, fire rating and condition of existing doors prior to any installation.

HARDWARE GENERAL NOTES:

General notes:

- Contractor shall verify all existing field conditions and notify architect immediately if that which exists differs from that which is shown on drawings.
- All work to comply with Federal, State and Local codes, laws and ordinances. The requirements of ICC/ANSI A117.1 and the Americans with disabilities act (ADA) are to be fully satisfied. All work shall meet the most stringent requirements of both including, but not limited to clearances, limitations, accessories, etc.
- These drawings are prepared in accordance with the limited services for which the architect was contracted. The architect makes no representation that the interpretation of these documents will result in complete compliance with the ADA.
- All doors required to be labeled shall be set in labeled frames and identified with UL label and be provided with approved self-closing devices and positive latching hardware.
- All designated exit doors shall be equipped with the required egress hardware.
- Supplier shall meet with owner to establish MK keying system and provide a combined cylinder for each locking device as direct by owner. Supplier shall submit key schedule for final approval. Furnish 2 change keys per cylinder and 2 master keys total.
- Supplier shall furnish and provide all necessary reinforcements, brackets, fasteners, spacers and fillers to provide a complete functioning opening.
- Supplier shall furnish complete shop drawings including: vertical typed hardware schedule, product data sheets and warranty information following DHI prescribed methods.

DOOR HARDWARE:

Hardware Set 1 (Classroom)

- | | | | | |
|---|-----|-----------------|-----|-------|
| 1 | set | Smoke Seal 797B | Blk | Reese |
|---|-----|-----------------|-----|-------|

Hardware Set 2 - Passage set (Always Unlocked)

- | | | | | |
|---|-----|----------------------------|-----|-----|
| 3 | ea. | Butt Hinge 35STBB 4545 NRP | 26D | PDQ |
| 1 | ea. | Passage Set MR 126 DJSJ | 32D | PDQ |
| 1 | ea. | Wall Stop 102 | 26D | PDQ |

Hardware Set 3 - Classroom Lock (Lock/Unlock)

- | | | | | |
|---|-----|--------------------------------|-----|-----|
| 3 | ea. | Butt Hinge 35STBB 4545 NRP | 26D | PDQ |
| 1 | ea. | Classroom lock MR 148 DJSJ-SFL | 32D | PDQ |
| 1 | ea. | Wall Stop 102 | 26D | PDQ |

Hardware Set 4 - Office Lock (Lock/Unlock)

- | | | | | |
|---|-----|-----------------------------|-----|-----|
| 3 | ea. | Butt Hinge 35STBB 4545 NRP | 26D | PDQ |
| 1 | ea. | Office Lock MR 116 DJSJ-SFL | 32D | PDQ |
| 1 | ea. | Wall Stop 102 | 26D | PDQ |

Hardware Set 5 - Classroom Lock (Lock/Unlock) + Closer

- | | | | | |
|---|-----|--------------------------------------|-----|-----|
| 3 | ea. | Butt Hinge 35STBB 4545 NRP | 26D | PDQ |
| 1 | ea. | Classroom Lock MR 148 DJSJ-SFL | 32D | PDQ |
| 1 | ea. | Closer 7101 BC EDA (Pull side Mount) | AL | PDQ |
| 1 | ea. | Wall Stop 102 | 26D | PDQ |
| 1 | ea. | Kickplate 98 10 x 2" LDW | 32D | PDQ |

Hardware Set 6 - Add Smoke Seal

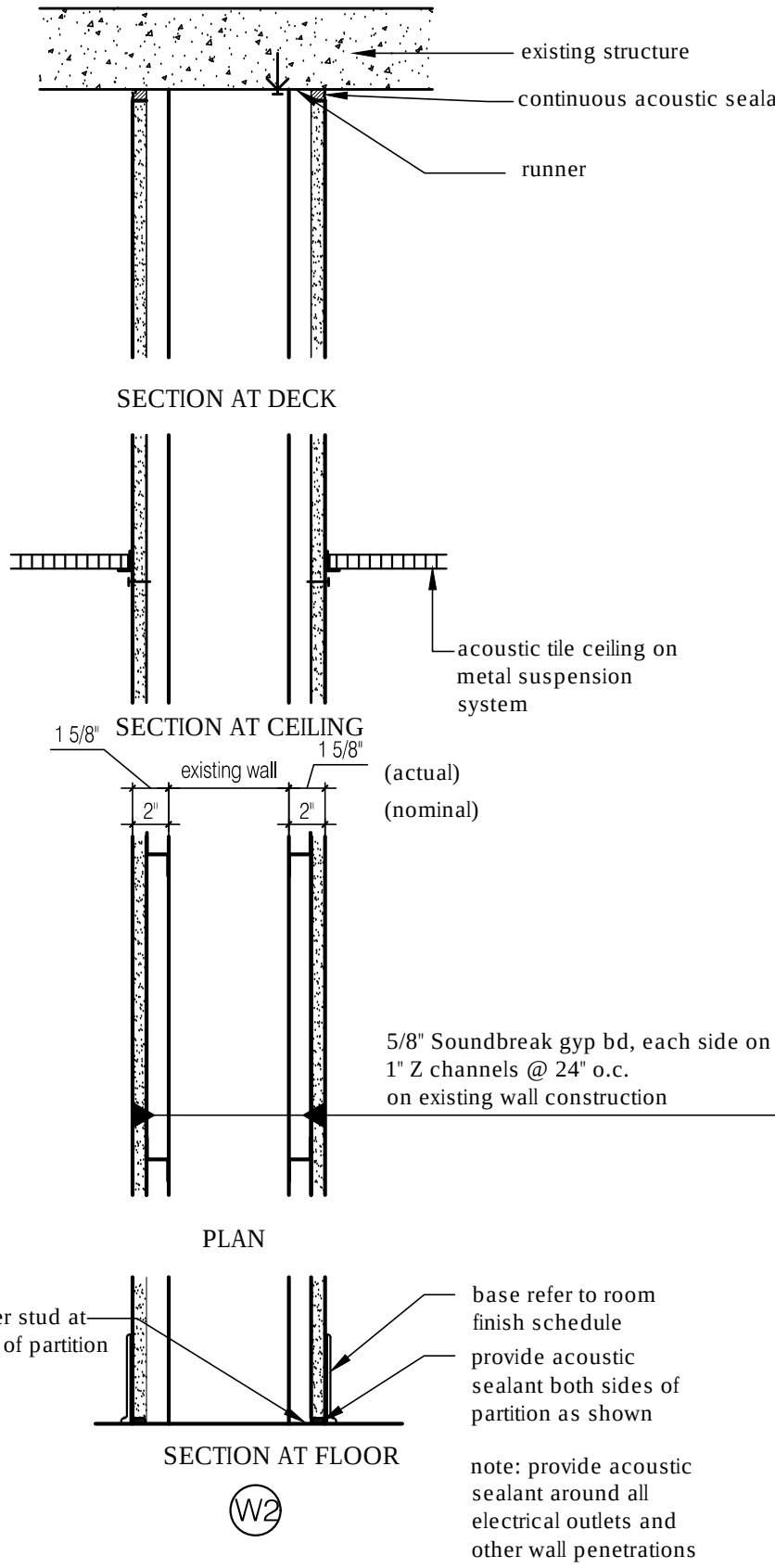
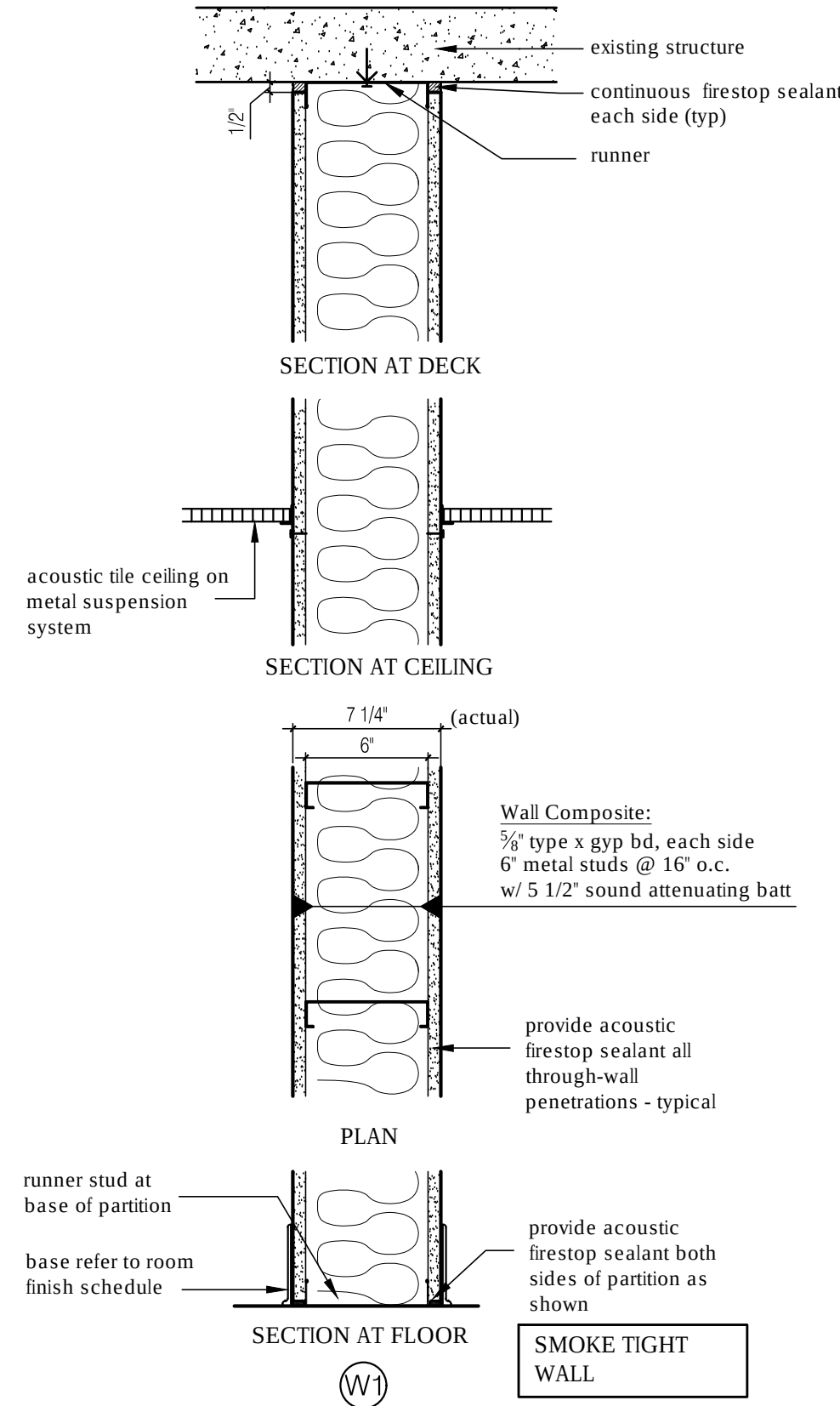
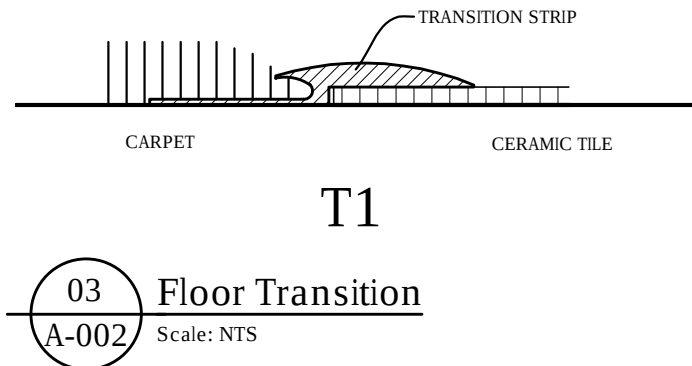
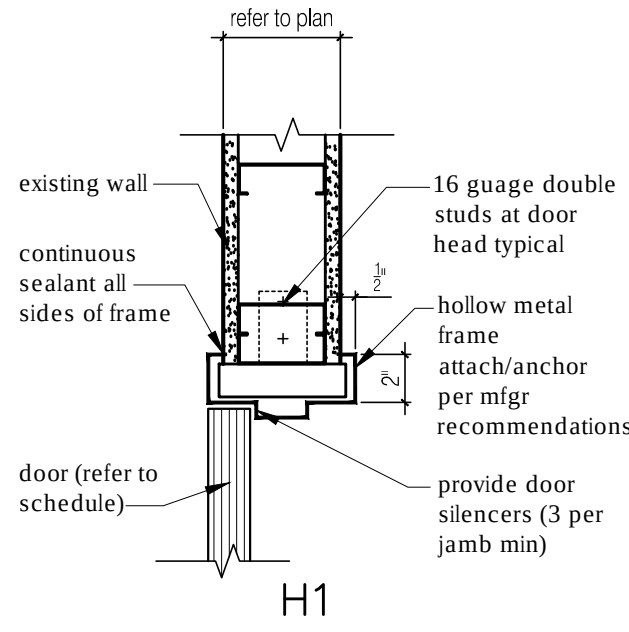
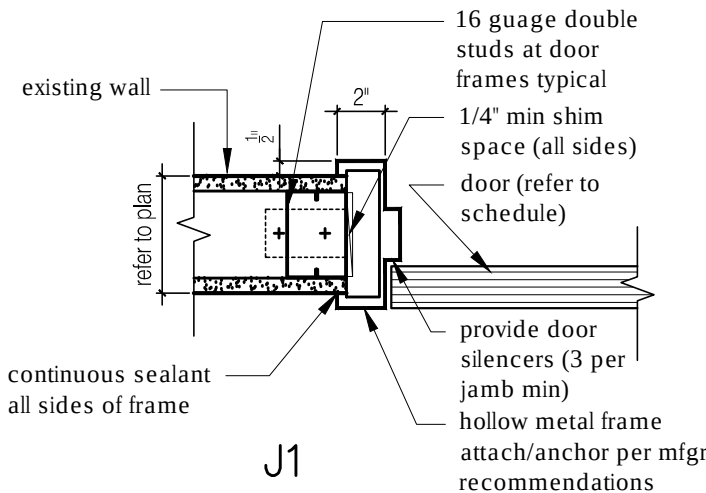
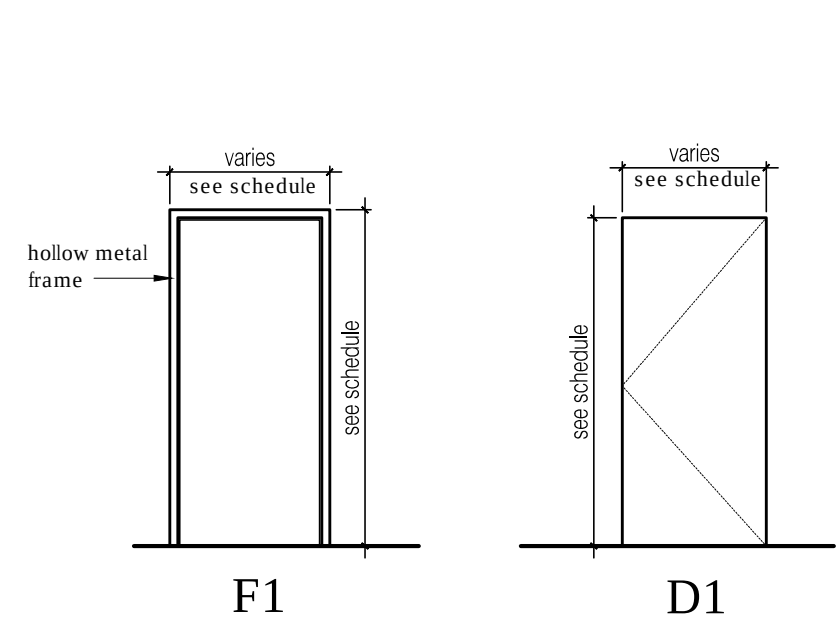
- | | | | | |
|---|-----|---------------------------------|-----|-------|
| 1 | set | Smoke Seal 797B | Blk | Reese |
| 1 | set | Flex Smoke Astragal 103C x 103C | AL | Reese |

Hardware Set 7 - Classroom Lock (Lock/Unlock) + Closer

- | | | | | |
|---|-----|---|-----|-----|
| 3 | ea. | Butt Hinge 35STBB 4545 NRP | 26D | PDQ |
| 1 | ea. | Classroom Lock MR 148 DJSJ-SFL | 32D | PDQ |
| 1 | ea. | Closer 7101 BC PA Regular Arm (Pull side Mount) | AL | PDQ |
| 1 | ea. | Wall Stop 102 | 26D | PDQ |
| 1 | ea. | Kickplate 98 10 x 2" LDW | 32D | PDQ |

Hardware Set 8 - Privacy Set w/ indicator (Lock/Unlock) + Closer

- | | | | | |
|---|-----|---|-----|-----|
| 3 | ea. | Butt Hinge 35STBB 4545 NRP | 26D | PDQ |
| 1 | ea. | Privacy Set w/ indicator MR 148 DJSJ-SFL | 32D | PDQ |
| 1 | ea. | Closer 7101 BC PA Regular Arm (Pull side Mount) | AL | PDQ |
| 1 | ea. | Wall Stop 102 | 26D | PDQ |
| 1 | ea. | Kickplate 98 10 x 2" LDW | 32D | PDQ |



01 W-1 WALL TYPE
A-30 Scale: 1 1/2" = 1'-0"

01 W-2 WALL TYPE
A-30 Scale: 1 1/2" = 1'-0"

WAYNE STATE
UNIVERSITY
Facilities Planning and Management
5454 Cass Avenue
Detroit, MI 48202

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ARCHITECTURE
2215 COLE STREET
BIRMINGHAM, MICHIGAN 48009
TELEPHONE: 248.646.5765
FACSIMILE: 248.646.5813
NM Project Number - 18113.0

consultants:

key plan:

issue: date:

For Bids	Dec. 11, 2018
Review 100% CD's	Dec. 04, 2018
Owner Review 90% CD's	Nov. 27, 2018
Owner Review 60% CD's	Nov. 13, 2018



WAYNE STATE
UNIVERSITY

designed	DB
drawn	AG
coordination checked	JK
checked	JK
approved	JK
location	Prentis Building

project:
Prentis Building - Rackham
Relocation

sheet title:

Door Schedule & Wall Types

project number: sheet number:
WSU : 00

A-30

FOR BIDS

WAYNE STATE
UNIVERSITY

Facilities Planning and Management
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Detroit, MI 48202

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ARCHITECTURE

2215 COLE STREET
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TELEPHONE: 248.646.5765
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NM Project Number - 18113.0

consultants:

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WAYNE STATE
UNIVERSITY

designed	DB
drawn	AG
coordination checked	JK
checked	JK
location	Prentis Building

project:
Prentis Building - Rackham
Relocation

sheet title:

Prentis Building 1st Floor Plan -
Demolition Work

project number: sheet number:
WSU : 00

AD-101

FOR BIDS

BASEMENT
FLOOR BELOW

SECOND
FLOOR ABOVE

EXTERIOR
CIRCULATION

BASEMENT
FLOOR BELOW

GENERAL DEMOLITION NOTES

- A. Demolition contractor shall be familiar with entire scope of new work prior to starting demolition work.
- B. all demolition floor plans, wall layouts, door and window locations, patterns have been shown for reference only. The General Contractor must field verify all dimensions and room layouts prior to new work and notify the architect of any deviations from what is shown. All site visits must be coordinated with WSU Construction Project Manager minimum 24 hours in advance of the site visit(s). All work outside of defined construction zone must be coordinated with WSU Construction manager.
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- E. all existing items removed shall be returned to the owner for re-use or disposed of off site if rejected by the owner. do not damage any millwork during demolition.
- F. owner is responsible for removing any loose equipment such as furniture, movable equipment, trash cans, etc.
- G. all door hardware shall be removed from demolished doors, cleaned and turned over to the owner.
- H. repair all surfaces and components damaged during demolition and construction.
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- K. unless noted otherwise when removing existing suspended lay-in ceiling assembly, including furring channels, wall angles and suspension wires.
- L. where new plumbing is indicated, saw cut & remove existing concrete floor slab for installation of new plumbing, coordinate with mechanical and plumbing drawings for locations. Contractor must take precautions not to damage existing structural floor slab and is responsible to repair any damage due to new work. All slab removal work must be coordinated with EMU for allowable time of work and per specifications

LEGEND

- items to be removed
- existing items to remain

DEMOLITION NOTES

walls

- 01 Remove existing gypsum and metal stud wall full height
- 02 Remove portion of existing gypsum & metal stud wall for new door
- 03 Remove portion of existing gypsum & metal stud wall for new one-way mirror
- 03 Remove portion of existing block wall. provide temporary structural support

floors

- 21 Existing flooring and wall base to be removed. Prep floor for new finish per specifications. Patch and repair existing concrete floor slab.
- 22 Existing flooring to remain.

ceilings

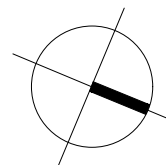
- 30 remove existing acoustic tile ceiling. grid to remain. Coordinate removal of mechanical, plumbing and electrical items with M&E demolition drawings.
- 31 remove existing light fixtures. Coordinate removal of other mechanical, plumbing and electrical items with M&E demolition drawings.

doors

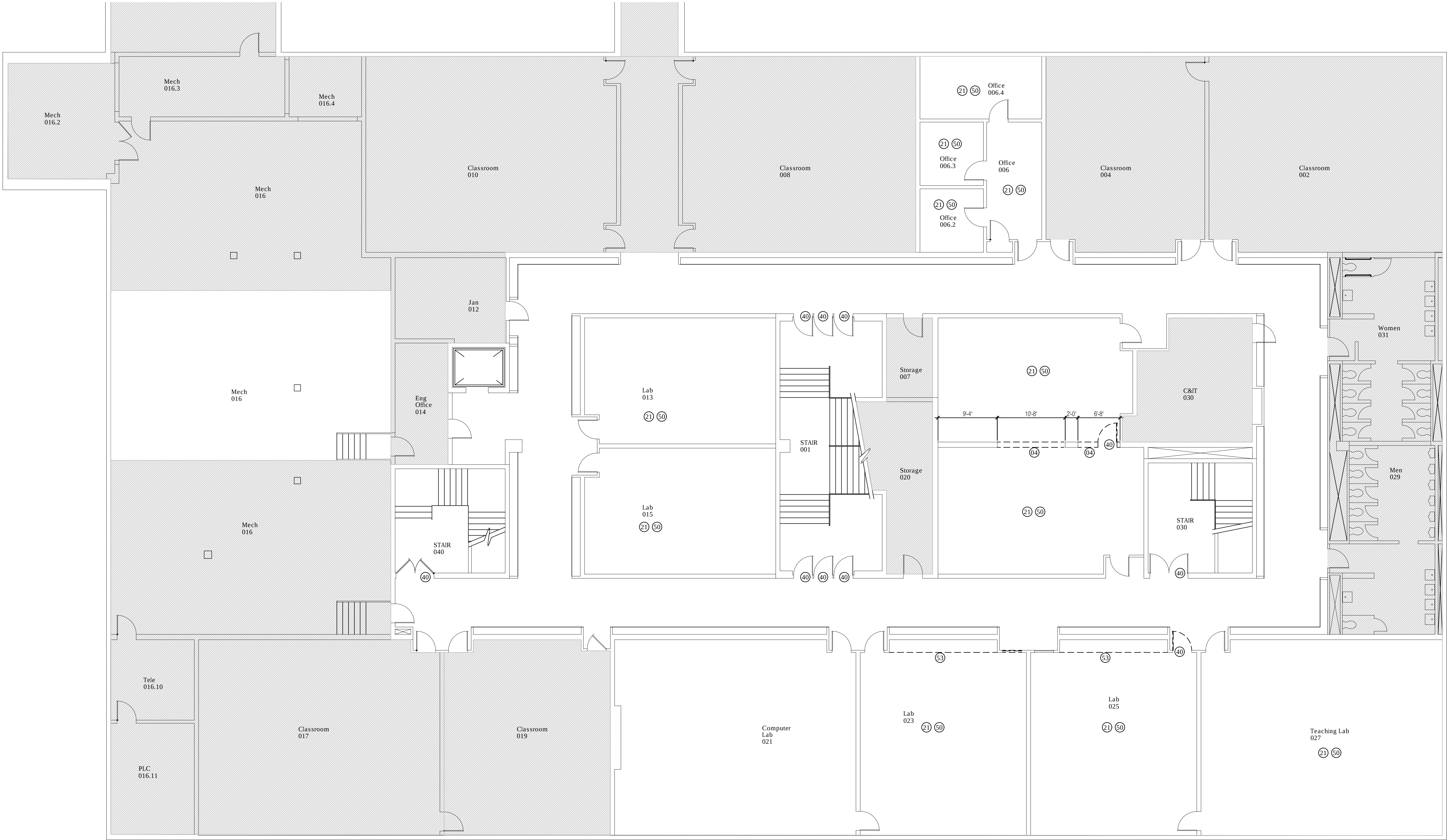
- 40 remove existing door & frame assembly, including all related hardware.

misc items

- 50 all existing furniture, file cabinets, and other movable equipment that is not tagged to remain is to be removed by WSU
- 51 Remove existing plumbing fixture. Refer or MEP dwgs for demo plumbing work.
- 52 Remove existing toilet partition.
- 53 Remove existing millwork
- 54 Remove existing signage



01
A-101
Prentis Building
First Floor Plan - Demolition Work
Scale: 1/8" = 1'-0"



GENERAL DEMOLITION NOTES

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- B. all demolition floor plans, wall layouts, door and window locations, patterns have been shown for reference only. The General Contractor must field verify all dimensions and room layouts prior to new work and notify the architect of any deviations from what is shown. All site visits must be coordinated with WSU Construction Project Manager minimum 24 hours in advance of the site visit(s). All work outside of defined construction zone must be coordinated with WSU Construction manager.
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LEGEND

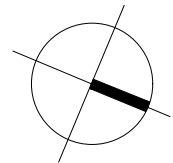
- items to be removed
- - - existing items to remain

DEMOLITION NOTES

- walls
- 01 Remove existing gypsum and metal stud wall full height
- 02 Remove portion of existing gypsum & metal stud wall for new door
- 03 Remove portion of existing gypsum & metal stud wall for new one-way mirror
- 03 Remove portion of existing block wall. provide temporary structural support
- floors
- 21 Existing flooring and wall base to be removed. Prep floor for new finish per specifications. Patch and repair existing concrete floor slab.
- 22 Existing flooring to remain.
- ceilings
- 30 remove existing acoustic tile ceiling, grid to remain. Coordinate removal of mechanical, plumbing and electrical items with M&E demolition drawings.
- 31 remove existing light fixtures. Coordinate removal of other mechanical, plumbing and electrical items with M&E demolition drawings.
- doors
- 40 remove existing door & frame assembly, including all related hardware.

misc items

- 50 all existing furniture, file cabinets, and other movable equipment that is not tagged to remain is to be removed by WSU
- 51 Remove existing plumbing fixture. Refer to MEP dwgs for demo plumbing work.
- 52 Remove existing toilet partition.
- 53 Remove existing millwork
- 54 Remove existing signage



Prentis Building
Basement Plan - Demolition Work
01
A-101
Scale: 1/8" = 1'-0"

WAYNE STATE
UNIVERSITY

Facilities Planning and Management
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Detroit, MI 48202

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TELEPHONE: 248.646.5765
FACSIMILE: 248.646.5813

NM Project Number - 18113.0

consultants:

key plan:

issue: date:

For Bids	Dec. 11, 2018
Review 100% CD's	Dec. 04, 2018
Owner Review 90% CD's	Nov. 27, 2018
Owner Review 60% CD's	Nov. 13, 2018



WAYNE STATE
UNIVERSITY

designed	DB
drawn	AG
coordination checked	JK
checked	JK
location	Prentis Building

project:
Prentis Building - Rackham
Relocation

sheet title:

Prentis Building Basement Floor
Plan - Demolition Work

project number: sheet number:
WSU : 00

AD-101-B

FOR BIDS

WAYNE STATE
UNIVERSITY

Facilities Planning and Management
5454 Cass Avenue
Detroit, MI 48202

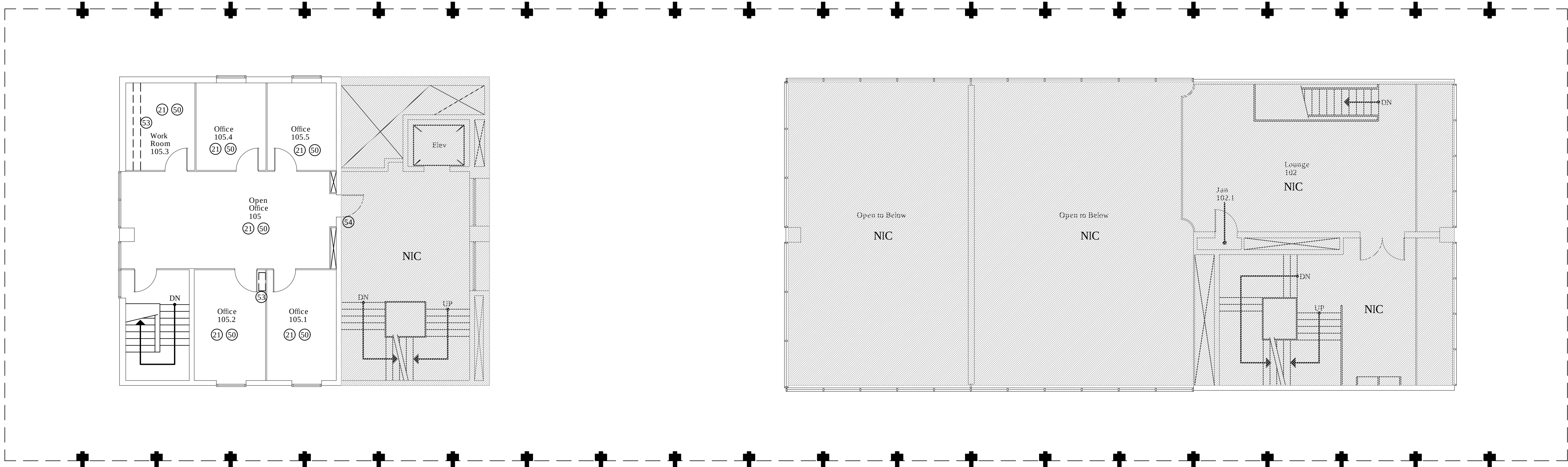
NIAGARA
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2215 COLE STREET
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TELEPHONE: 248.646.5765
FACSIMILE: 248.646.5813

NM Project Number - 18113.0

consultants:



GENERAL DEMOLITION NOTES

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LEGEND

- items to be removed
- existing items to remain

DEMOLITION NOTES

walls

- 01 Remove existing gypsum and metal stud wall full height
- 02 Remove portion of existing gypsum & metal stud wall for new door
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- 03 Remove portion of existing block wall. provide temporary structural support

floors

- 21 Existing flooring and wall base to be removed. Prep floor for new finish per specifications. Patch and repair existing concrete floor slab.
- 22 Existing flooring to remain.

ceilings

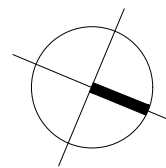
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- 31 remove existing light fixtures. Coordinate removal of other mechanical, plumbing and electrical items with M&E demolition drawings.

doors

- 40 remove existing door & frame assembly, including all related hardware.

misc items

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- 51 Remove existing plumbing fixture. Refer or MEP dwgs for demo plumbing work.
- 52 Remove existing toilet partition.
- 53 Remove existing millwork
- 54 Remove existing signage



Prentis Building
Mezzanine Floor Plan - Demolition Work
01
A-101
Scale: 1/8" = 1'-0"

key plan:

issue: date:

For Bids	Dec. 11, 2018
Review 100% CD's	Dec. 04, 2018
Owner Review 90% CD's	Nov. 27, 2018
Owner Review 60% CD's	Nov. 13, 2018



WAYNE STATE
UNIVERSITY

designed	DB
drawn	AG
coordination checked	JK
checked	JK approved JK
location	Prentis Building

project:
Prentis Building - Rackham
Relocation

sheet title:

Prentis Building Mezzanine Floor
Plan - Demolition Work

project number: sheet number:
WSU : 00

AD-101-M

FOR BIDS

WAYNE STATE
UNIVERSITY

Facilities Planning and Management
5454 Cass Avenue
Detroit, MI 48202

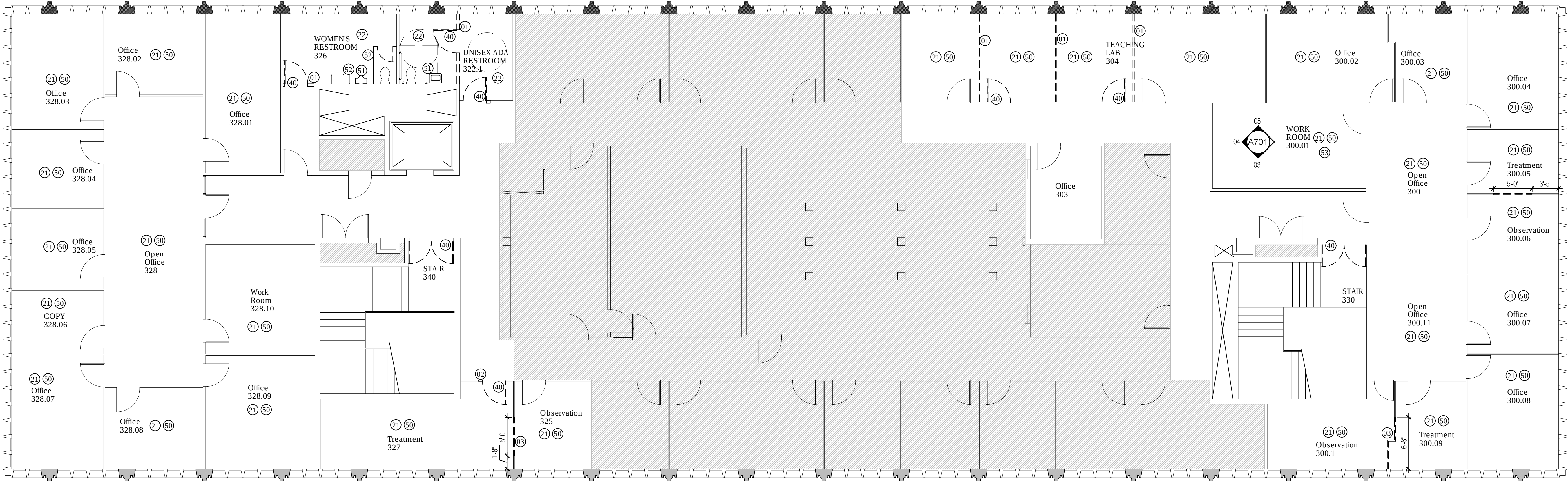
NIAGARA
MURANO

ARCHITECTURE

2215 COLE STREET
BIRMINGHAM, MICHIGAN 48009
TELEPHONE: 248.646.5765
FACSIMILE: 248.646.5813

NM Project Number - 18113.0

consultants:



GENERAL DEMOLITION NOTES

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LEGEND

- items to be removed
- existing items to remain

DEMOLITION NOTES

walls

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- 03 Remove portion of existing block wall. provide temporary structural support

floors

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ceilings

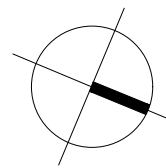
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doors

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- 51 Remove existing plumbing fixture. Refer or MEP dwgs for demo plumbing work.
- 52 Remove existing toilet partition.
- 53 Remove existing millwork
- 54 Remove existing signage



Prentis Building
Third Floor Plan - Demolition Work
Scale: 1/8" = 1'-0"

key plan:

issue: date:

For Bids	Dec. 11, 2018
Review 100% CD's	Dec. 04, 2018
Owner Review 90% CD's	Nov. 27, 2018
Owner Review 60% CD's	Nov. 13, 2018



WAYNE STATE
UNIVERSITY

designed	DB
drawn	AG
coordination checked	JK
checked	JK approved JK
location	Prentis Building

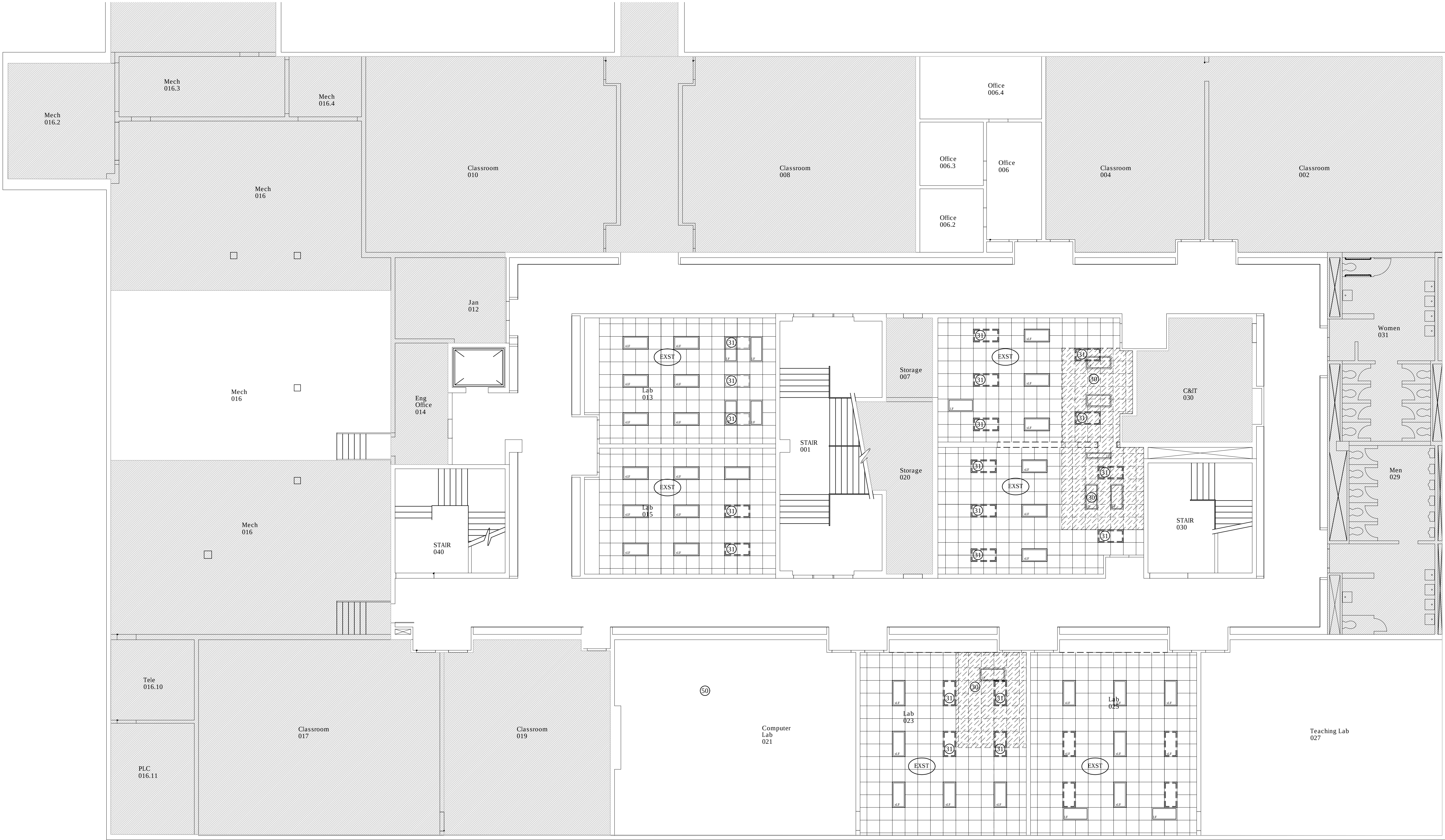
project:
Prentis Building - Rackham
Relocation

sheet title:
Prentis Building 3rd Floor Plan -
Demolition Work

project number: sheet number:
WSU : 00

AD-103

FOR BIDS



GENERAL DEMOLITION NOTES

- A. Demolition contractor shall be familiar with entire scope of new work prior to starting demolition work.
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LEGEND

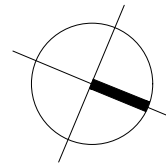
- items to be removed
- — — existing items to remain

DEMOLITION NOTES

- walls
- 01 Remove existing gypsum and metal stud wall full height
- 02 Remove portion of existing gypsum & metal stud wall for new door
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- doors
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misc items

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- 51 Remove existing plumbing fixture. Refer to MEP dwgs for demo plumbing work.
- 52 Remove existing toilet partition.
- 53 Remove existing millwork
- 54 Remove existing signage



Prentis Building
Basement RC Plan - Demolition Work
01
A-101 Scale: 1/8" = 1'-0"

WAYNE STATE
UNIVERSITY

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NIAGARA
MURANO

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BIRMINGHAM, MICHIGAN 48009
TELEPHONE: 248.646.5765
FACSIMILE: 248.646.5813

NM Project Number - 18113.0

consultants:

key plan:

issue: date:

For Bids	Dec. 11, 2018
Review 100% CD's	Dec. 04, 2018
Owner Review 90% CD's	Nov. 27, 2018
Owner Review 60% CD's	Nov. 13, 2018



WAYNE STATE
UNIVERSITY

designed	DB
drawn	AG
coordination checked	JK
checked	JK approved JK
location	Prentis Building

project:
Prentis Building - Rackham
Relocation

sheet title:

Prentis Building Basement Reflected
Ceiling Plan - Demolition Work

project number: sheet number:
WSU : 00

AD-104-B

FOR BIDS

WAYNE STATE
UNIVERSITY

Facilities Planning and Management
5454 Cass Avenue
Detroit, MI 48202

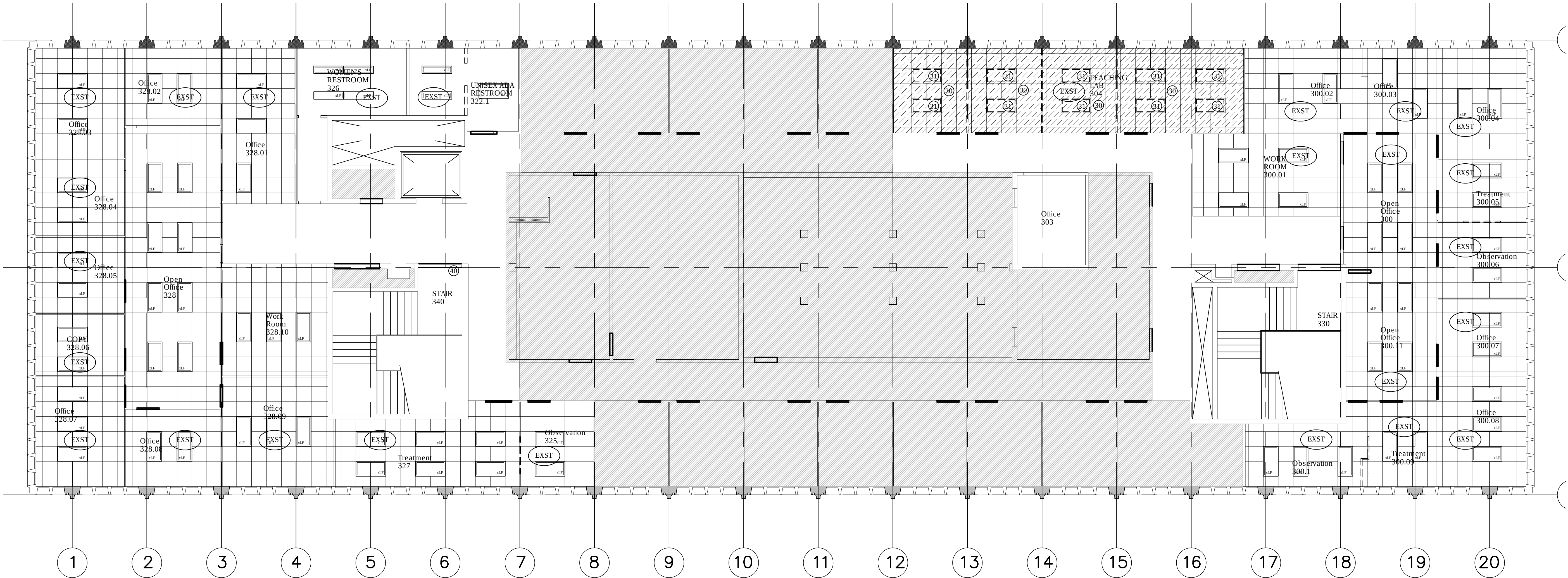
NIAGARA
MURANO

ARCHITECTURE

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BIRMINGHAM, MICHIGAN 48009
TELEPHONE: 248.646.5765
FACSIMILE: 248.646.5813

NM Project Number - 18113.0

consultants:



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LEGEND

— items to be removed

— existing items to remain

DEMOLITION NOTES

walls

- (01) Remove existing gypsum and metal stud wall full height
- (02) Remove portion of existing gypsum & metal stud wall for new door
- (03) Remove portion of existing gypsum & metal stud wall for new one-way mirror
- (03) Remove portion of existing block wall. provide temporary structural support

floors

- (21) Existing flooring and wall base to be removed. Prep floor for new finish per specifications. Patch and repair existing concrete floor slab.
- (22) Existing flooring to remain.

ceilings

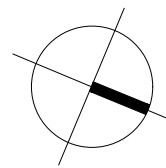
- (30) remove existing acoustic tile ceiling, grid to remain. Coordinate removal of mechanical, plumbing and electrical items with M&E demolition drawings.
- (31) remove existing light fixtures. Coordinate removal of other mechanical, plumbing and electrical items with M&E demolition drawings.

doors

- (40) remove existing door & frame assembly, including all related hardware.

misc items

- (50) all existing furniture, file cabinets, and other movable equipment that is not tagged to remain is to be removed by WSU
- (51) Remove existing plumbing fixture. Refer or MEP dwgs for demo plumbing work.
- (52) Remove existing toilet partition.
- (53) Remove existing millwork
- (54) Remove existing signage



Prentis Building
Third Floor Plan - Demolition Work
Scale: 1/8" = 1'-0"

key plan:

issue: date:

For Bids	Dec. 11, 2018
Review 100% CD's	Dec. 04, 2018
Owner Review 90% CD's	Nov. 27, 2018
Owner Review 60% CD's	Nov. 13, 2018



WAYNE STATE
UNIVERSITY

designed	DB
drawn	AG
coordination checked	JK
checked	JK approved JK
location	Prentis Building

project:
Prentis Building - Rackham
Relocation

sheet title:
Prentis Building 3rd Floor reflected
Ceiling Plan - Demolition Work

project number: sheet number:
WSU : 00

AD-105

FOR BIDS

WAYNE STATE
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Facilities Planning and Management
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Detroit, MI 48202

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TELEPHONE: 248.646.5765
FACSIMILE: 248.646.5813

NM Project Number - 18113.0

consultants:

key plan:

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For Bids	Dec. 11, 2018
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WAYNE STATE
UNIVERSITY

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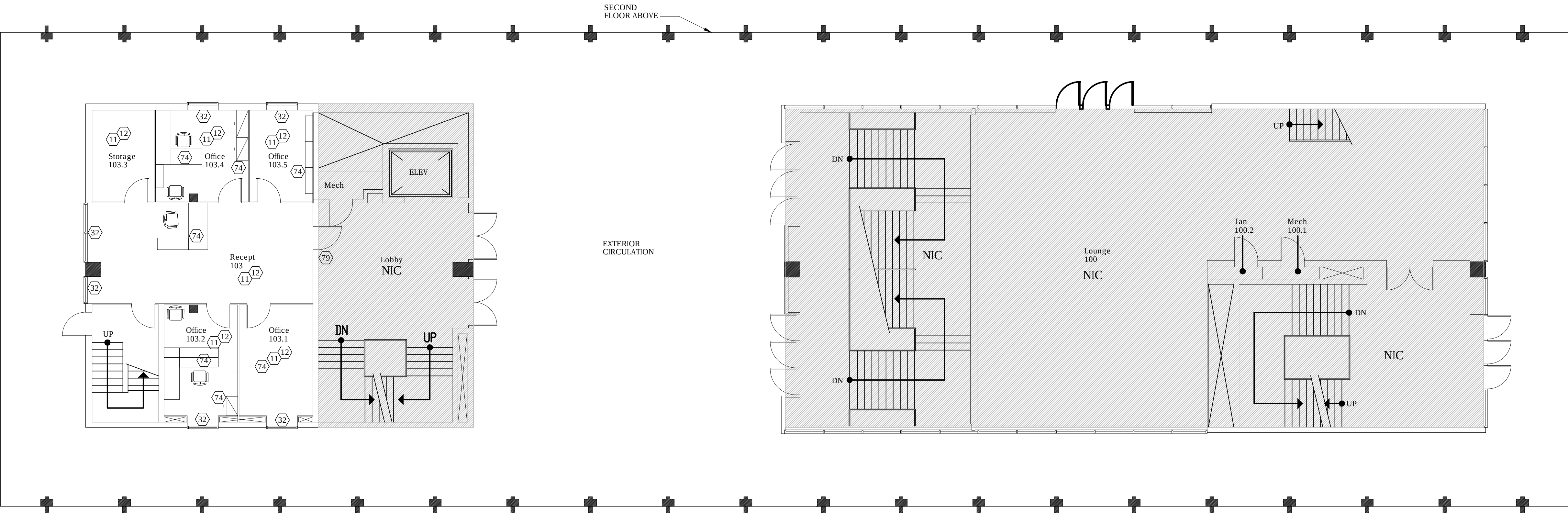
project:
Prentis Building - Rackham
Relocation

sheet title:
Prentis Building 1st Floor Plan -
New Work

project number: sheet number:
WSU : 00

A-201

FOR BIDS



GENERAL NOTES

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NEW WORK NOTES:

WALLS

- (01) NEW WALL CONSTRUCTION, PREP AND PAINT, REFER TO WALL TYPES AND DETAILS.

FLOORS

- (11) NEW FLOOR FINISH, REFER TO FINISH SCHEDULE
(12) NEW FLOOR BASE, REFER TO FINISH SCHEDULE
(13) INFILL AREA WHERE WALL WAS REMOVED WITH NEW FLOORING TO MATCH EXISTING

DOORS AND WINDOWS

- (31) INSTALL NEW DOOR, REFER TO DOOR SCHEDULE. PROVIDE HARDWARE PER SCHEDULE
(32) CLEAN EXISTING WINDOW SYSTEM, REPAIR WINDOW SILL, AND VERTICAL BLINDS AS NECESSARY
(33) DOOR TO RECEIVE NEW CARD READER, REFER TO ELECTRICAL DRAWINGS
(34) WINDOW TO RECEIVE NEW BLACK-OUT SHADE
(35) NEW 72" CABINET STYLE DOOR ON CONCEALED HINGES.
(36) RE-CODE EXISTING DOOR SECURITY

CEILINGS

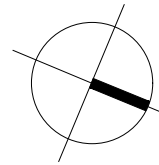
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LIGHTING

- (51) INSTALL NEW LIGHTING FIXTURES, REFER TO ELECTRICAL DRAWINGS FOR FULL EXTENT OF WORK.

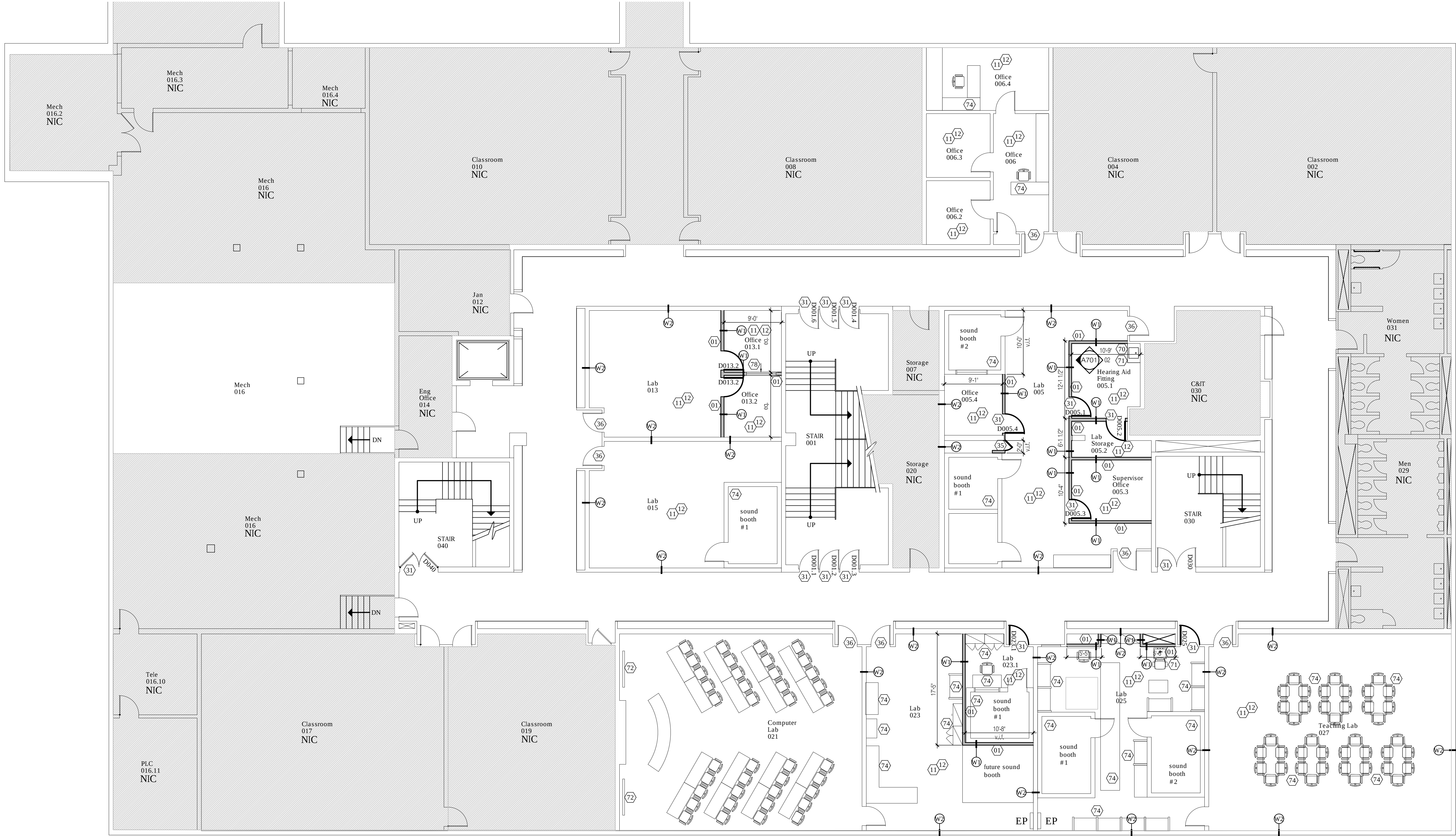
MISC.

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(78) INSTALL NEW ONE-WAY MIRROR. ARROW INDICATES DIRECTION OF VIEW
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01
A-101

Prentis Building
First Floor Plan - New Work
Scale: 1/8" = 1'-0"



GENERAL NOTES

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DOORS AND WINDOWS

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- 35 NEW 72" CABINET STYLE DOOR ON CONCEALED HINGES.
- 36 RE-CODE EXISTING DOOR SECURITY

CEILINGS

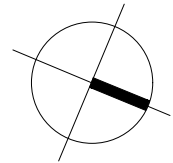
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LIGHTING

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MISC.

- 70 INSTALL NEW MILLWORK, REFER TO INTERIOR ELEVATIONS
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- 72 RELOCATED PROJECTION SCREEN
- 74 INSTALL NEW LOOSE FURNITURE, REFER WSU FURNITURE LIST
- 75 INSTALL NEW WHITE BOARD
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01
A-101

Prentis Building
Basement Plan - New Work
Scale: 1/8" = 1'-0"

**WAYNE STATE
UNIVERSITY**

Facilities Planning and Management
5454 Cass Avenue
Detroit, MI 48202

**NIAGARA
MURANO**

ARCHITECTURE
2215 COLE STREET
BIRMINGHAM, MICHIGAN 48009
TELEPHONE: 248.646.5765
FACSIMILE: 248.646.5813

NM Project Number - 18113.0

consultants:

key plan:

issue: date:

For Bids	Dec. 11, 2018
Review 100% CD's	Dec. 04, 2018
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Owner Review 60% CD's	Nov. 13, 2018



**WAYNE STATE
UNIVERSITY**

designed	DB
drawn	AG
coordination checked	JK
checked	JK approved JK
location	Prentis Building

project:
**Prentis Building - Rackham
Relocation**

sheet title:

**Prentis Building Basement Floor
Plan - New Work**

project number: sheet number:
WSU : 00

A-201-B

FOR BIDS

WAYNE STATE
UNIVERSITY

Facilities Planning and Management
5454 Cass Avenue
Detroit, MI 48202

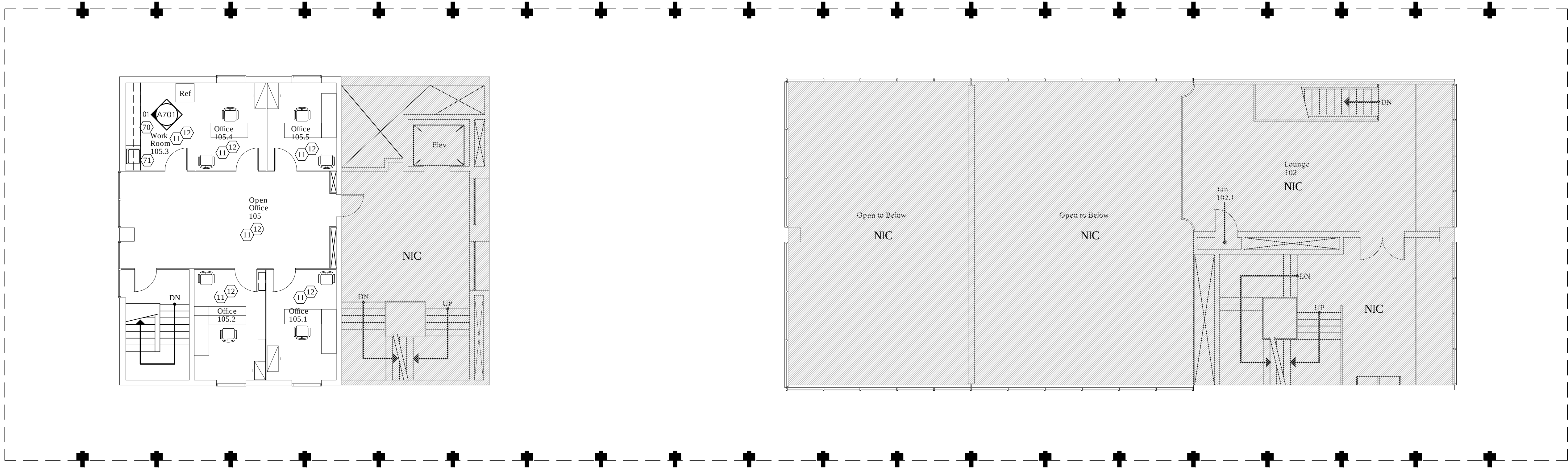
NIAGARA
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36 RE-CODE EXISTING DOOR SECURITY

CEILINGS

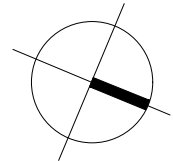
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79 INSTALL NEW SIGNAGE. COORDINATE WITH WSU FACILITIES MANAGER



Prentis Building
01 Mezzanine Floor Plan - New Work
A-101
Scale: 1/8" = 1'-0"

key plan:

issue: date:

For Bids	Dec. 11, 2018
Review 100% CD's	Dec. 04, 2018
Owner Review 90% CD's	Nov. 27, 2018
Owner Review 60% CD's	Nov. 13, 2018



WAYNE STATE
UNIVERSITY

designed	DB
drawn	AG
coordination checked	JK
checked	JK approved JK
location	Prentis Building

project:
Prentis Building - Rackham
Relocation

sheet title:

Prentis Building Mezzanine Plan -
New Work

project number: sheet number:
WSU : 00

A-201-M

FOR BIDS

WAYNE STATE
UNIVERSITY

Facilities Planning and Management
5454 Cass Avenue
Detroit, MI 48202

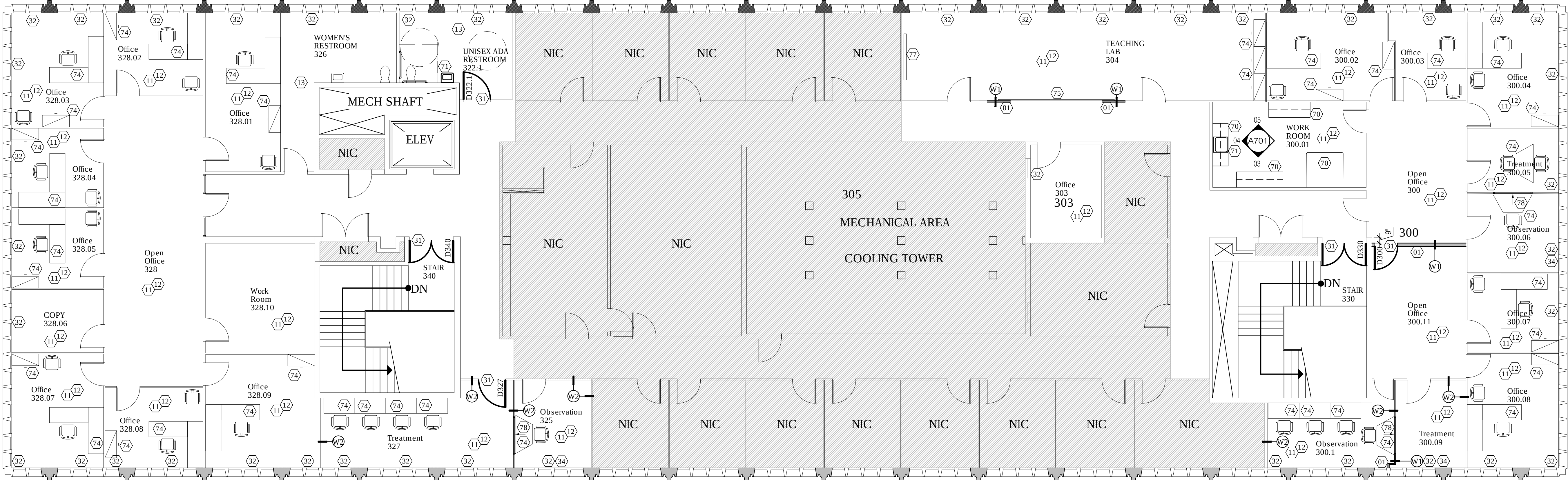
NIAGARA
MURANO

ARCHITECTURE

2 2 1 5 C O L L E G E S T R E E T
BIRMINGHAM, MICHIGAN 48009
TELEPHONE: 2 4 8 . 6 4 6 . 5 7 6 5
FACSIMILE: 2 4 8 . 6 4 6 . 5 8 1 3

NM Project Number - 18113.0

consultants:



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CEILINGS

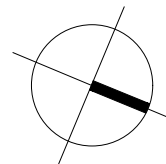
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Prentis Building
Third Floor Plan - New Work
01
A-101
Scale: 1/8" = 1'-0"

key plan:

issue: date:

For Bids	Dec. 11, 2018
Review 100% CD's	Dec. 04, 2018
Owner Review 90% CD's	Nov. 27, 2018
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WAYNE STATE
UNIVERSITY

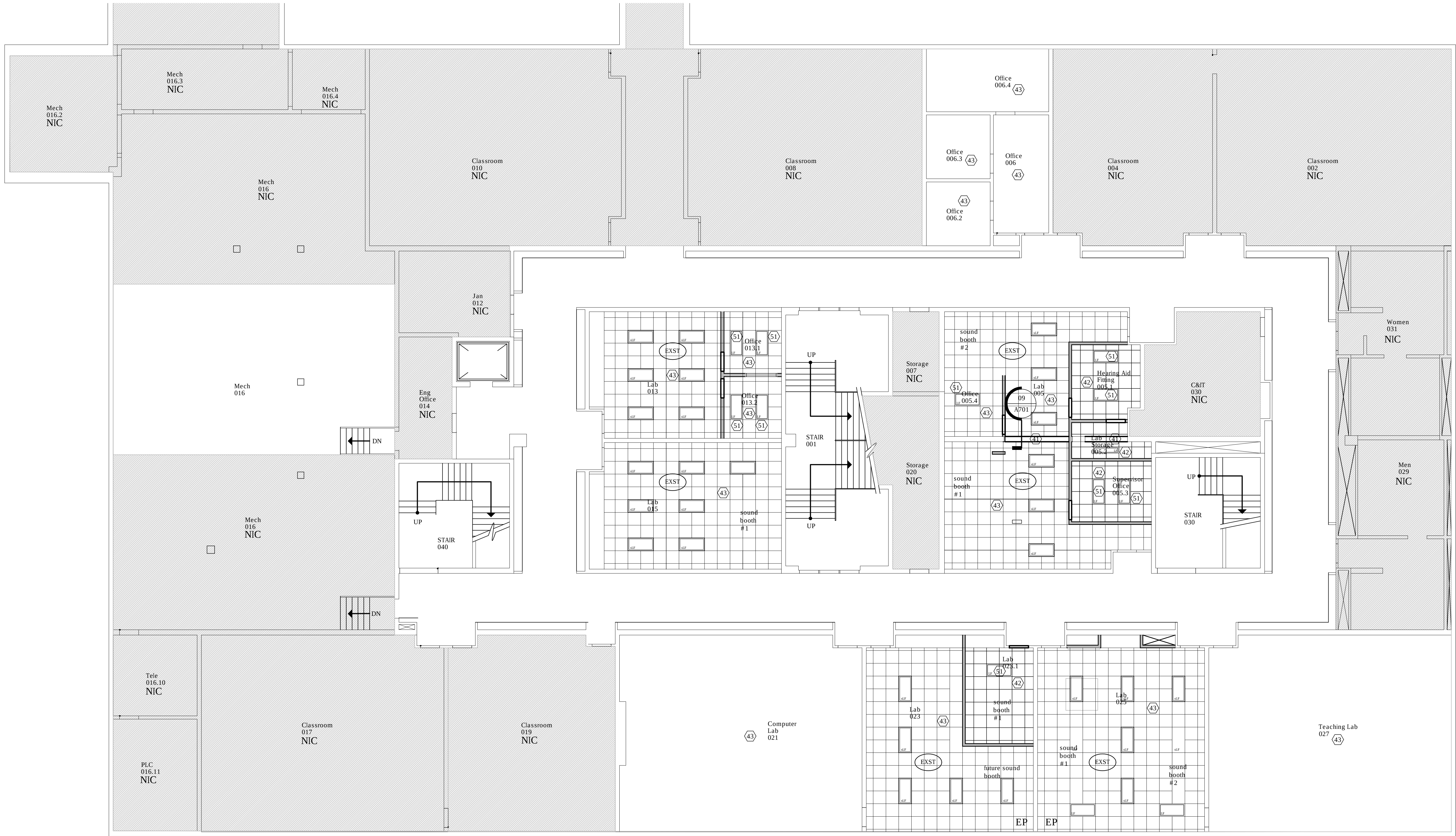
designed	DB
drawn	AG
coordination checked	JK
checked	JK approved JK
location	Prentis Building

project:
Prentis Building - Rackham
Relocation

sheet title:
Prentis Building 3rd Floor Plan - New
Work

project number: sheet number:
WSU : 00 A-203

FOR BIDS



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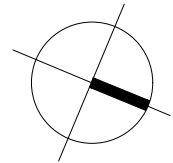
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01
A-101

Prentis Building
Basement Plan - New Work
Scale: 1/8" = 1'-0"

WAYNE STATE
UNIVERSITY

Facilities Planning and Management
5454 Cass Avenue
Detroit, MI 48202

NIAGARA
MURANO

ARCHITECTURE
2215 COLLETT STREET
BIRMINGHAM, MICHIGAN 48009
TELEPHONE: 248.646.5765
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NM Project Number - 18113.0

consultants:

key plan:

issue:

date:

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WAYNE STATE
UNIVERSITY

designed	DB
drawn	AG
coordination checked	JK
checked	JK approved JK
location	Prentis Building

project:

Prentis Building - Rackham
Relocation

sheet title:

Prentis Building Basement Floor
RC Plan - New Work

project number: sheet number:
WSU : 00

A-301-B

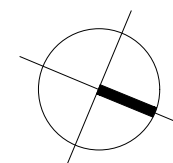
FOR BIDS

Facilities Planning and Management
5454 Cass Avenue
Detroit, MI 48202

A R C H I T E C T U R E
2 2 1 5 C O L E S T R E E T
B I R M I N G H A M , M I C H I G A N 4 8 0 0 9
T E L E P H O N E : 2 4 8 . 6 4 6 . 5 7 6 5
F A C S I M I L E : 2 4 8 . 6 4 6 . 5 8 1 3

NM Project Number - 18113.0

consultants



01
A-101

Prentis Building
Third Floor RC Plan - New Work
Scale: 1/8" = 1'-0"

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- | | |
|----|--|
| 41 | PREP AND PAINT GYPSUM CEILING |
| 42 | PROVIDE NEW ACOUSTIC CEILING TILE AND GRID, REFER TO FINISH SCHEDULE |
| 43 | EXISTING CEILING TILE AND GRID TO REMAIN. REPLACE ANY DAMAGED CEILING TILES OR GRID. |

LIGHTING

- 51 INSTALL NEW LIGHTING FIXTURES, REFER TO ELECTRICAL DRAWINGS FOR FULL EXTENT OF WORK.

MISC.

- (70) INSTALL NEW MILLWORK, REFER TO INTERIOR ELEVATIONS
- (71) INSTALL NEW PLUMBING FIXTURE, REFER TO MEP DRAWINGS
- (72) RELOCATED PROJECTION SCREEN
- (74) INSTALL NEW LOOSE FURNITURE, REFER WSU FURNITURE LIST
- (75) INSTALL NEW WHITE BOARD
- (77) INSTALL NEW FLAT SCREEN
- (78) INSTALL NEW ONE-WAY MIRROR. ARROW INDICATES DIRECTION OF VIEW
- (79) INSTALL NEW SIGNAGE. COORDINATE WITH WSU FACILITIES MANAGER

key plan:

issue: _____ date: _____

For Bids	Dec. 11, 2018
Review 100% CD's	Dec. 04, 2018
Owner Review 90% CD's	Nov. 27, 2018
Owner Review 60% CD's	Nov. 13, 2018



designed	DB
drawn	AG
coordination checked	JK
checked	JK
approved	JK
location	Prentis Building

project:
Prentis Building - Rackham
Relocation

sheet title:

Prentis Building 3rd Floor reflected
Ceiling Plan - New Work

project number: WSU : 00

A-30E

FORBIDS

WAYNE STATE
UNIVERSITY

Facilities Planning and Management
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NM Project Number - 18113.0

consultants:

key plan:

issue: date:

For Bids	Dec. 11, 2018
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WAYNE STATE
UNIVERSITY

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coordination checked	JK
checked	JK
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location	Prentis Building

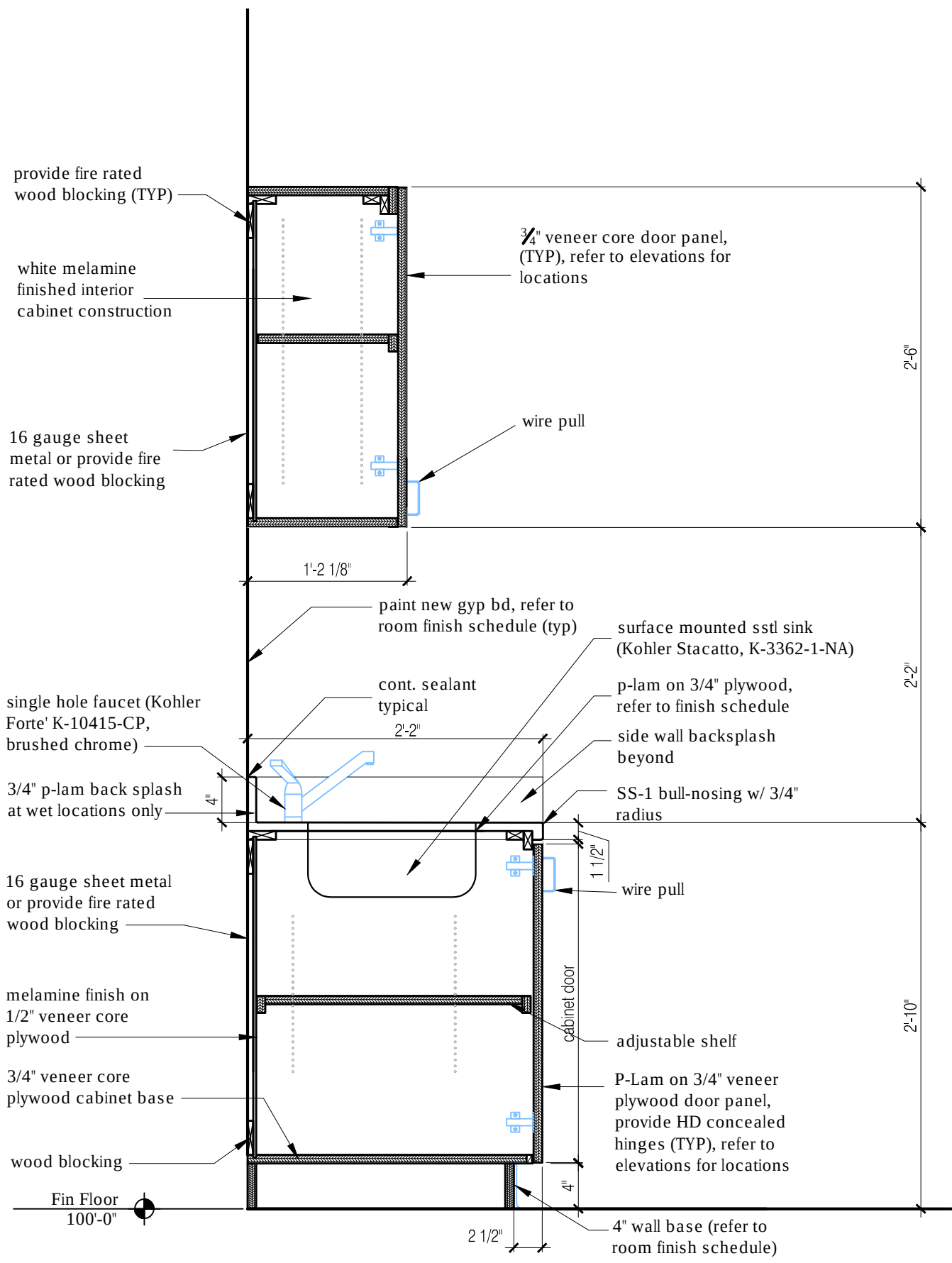
project:
Prentis Building - Rackham
Relocation

sheet title:
Prentis Building Interior Elevations,
Sections and Details

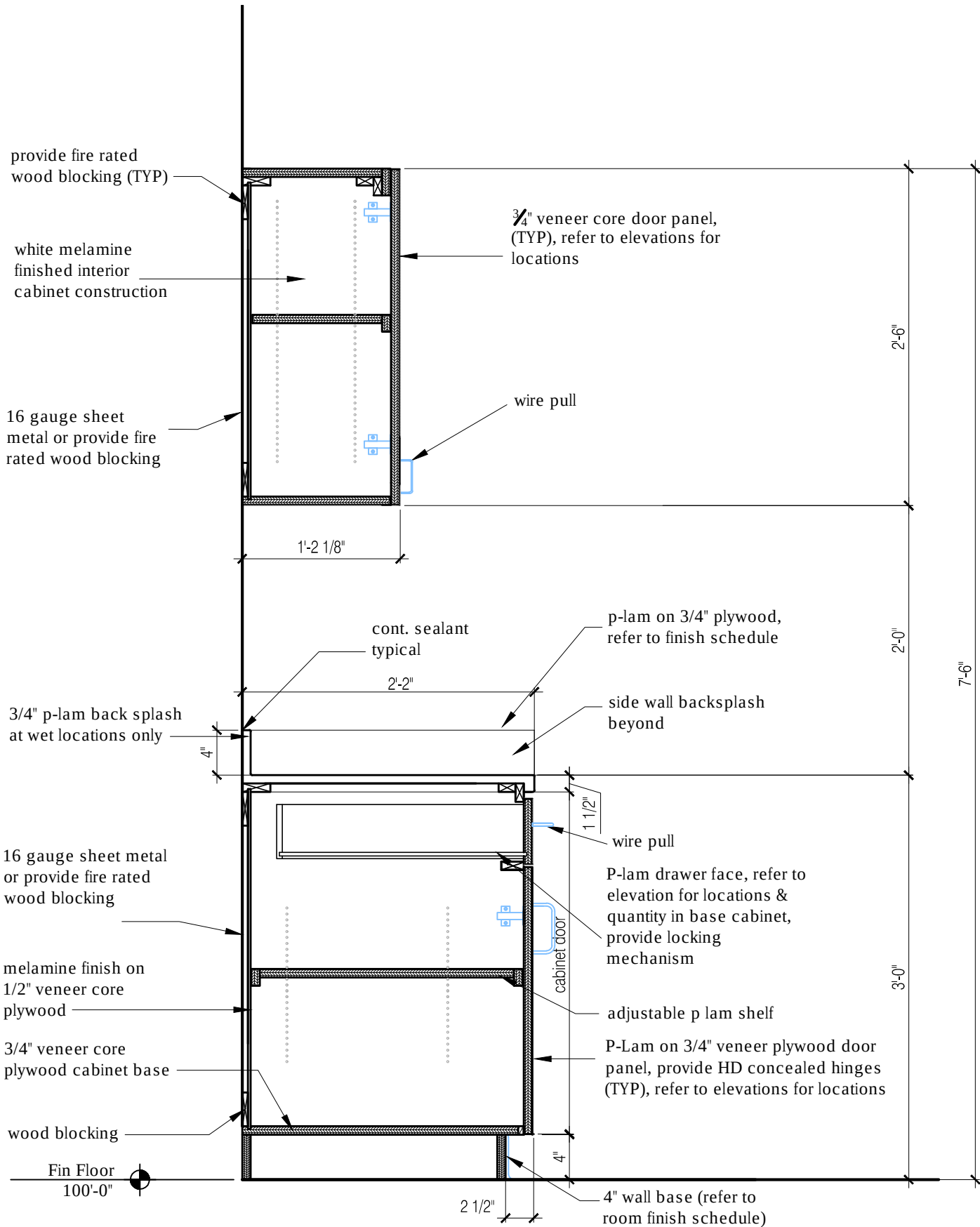
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WSU : 00

A-701

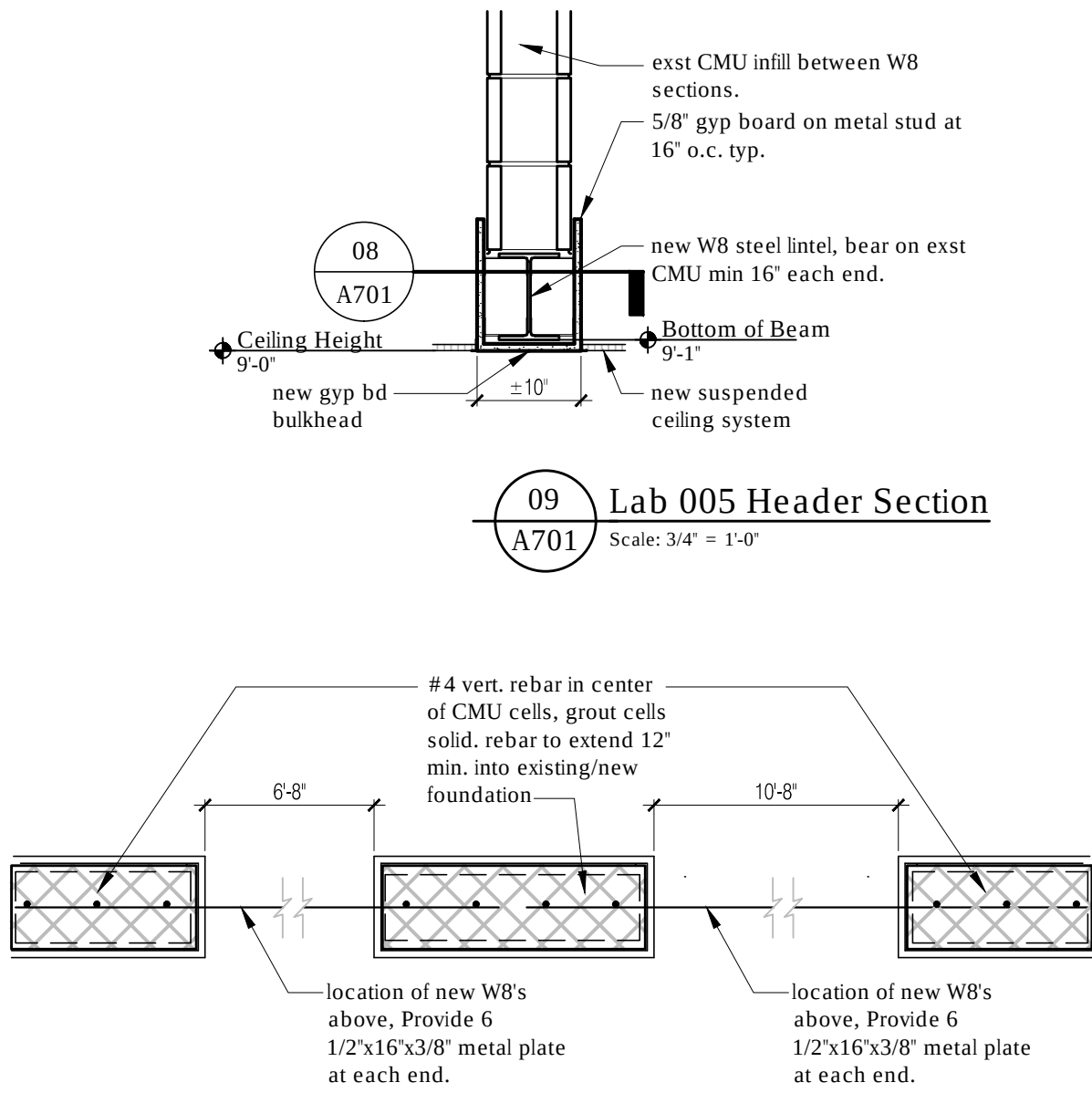
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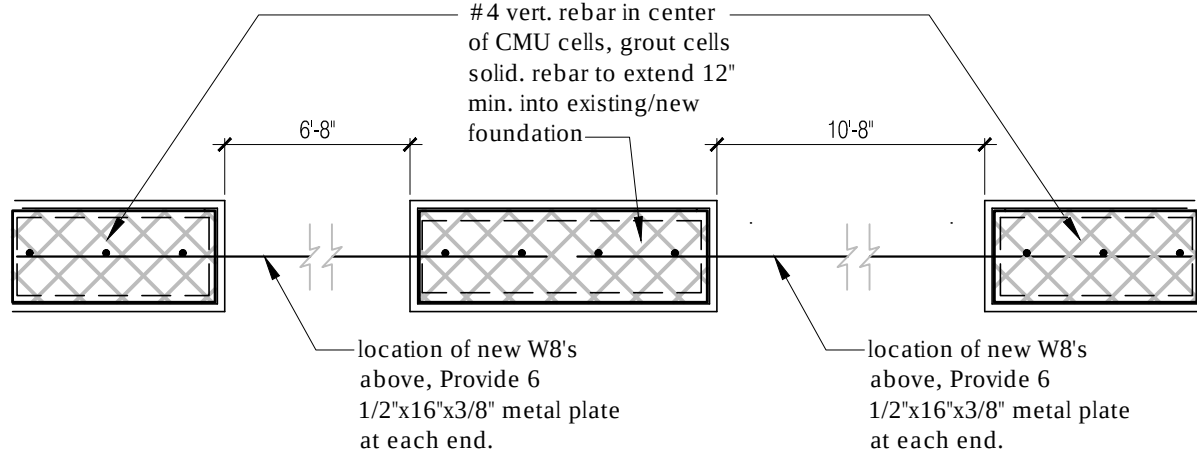
07 Millwork Section
A701 Scale: 1' = 1'-0"



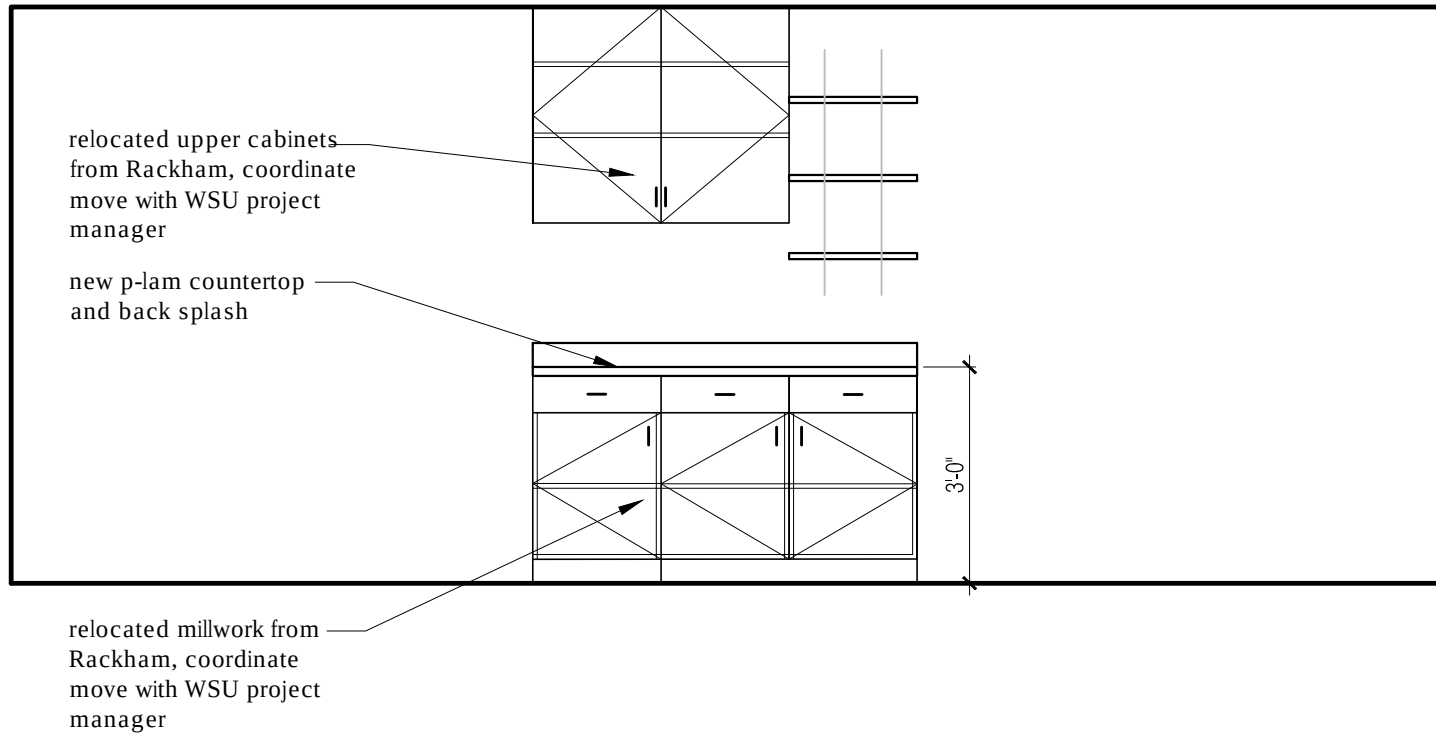
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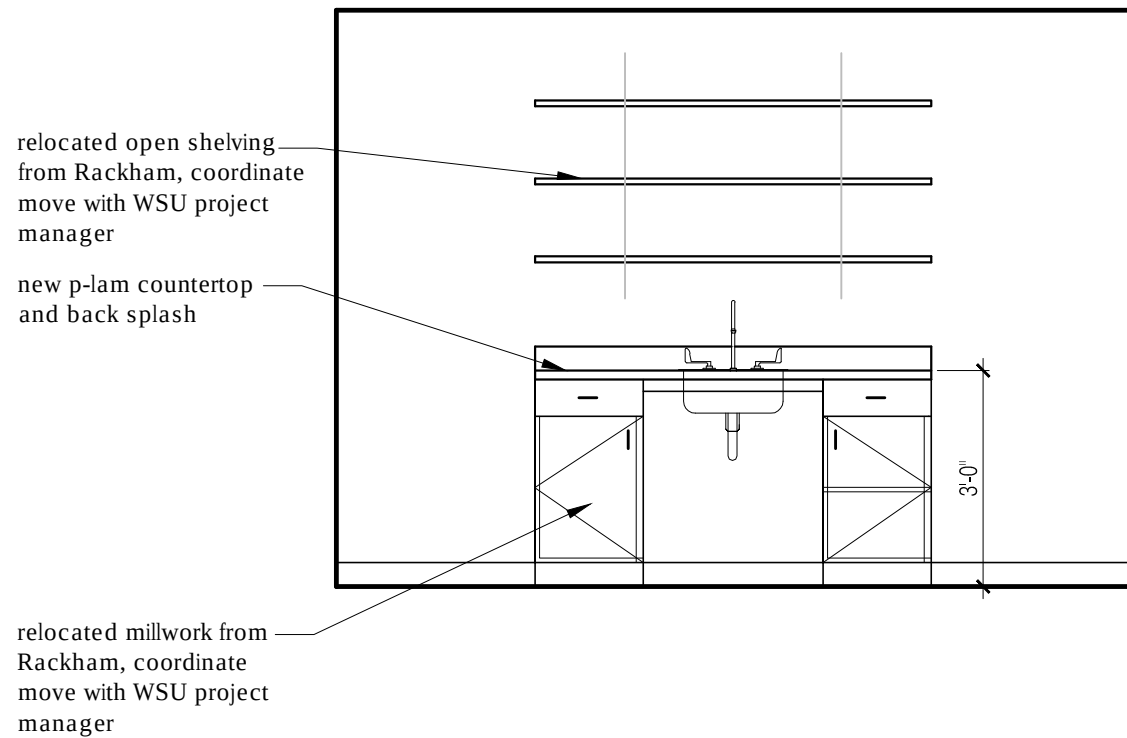
09 Lab 005 Header Section
A701 Scale: 3/4" = 1'-0"



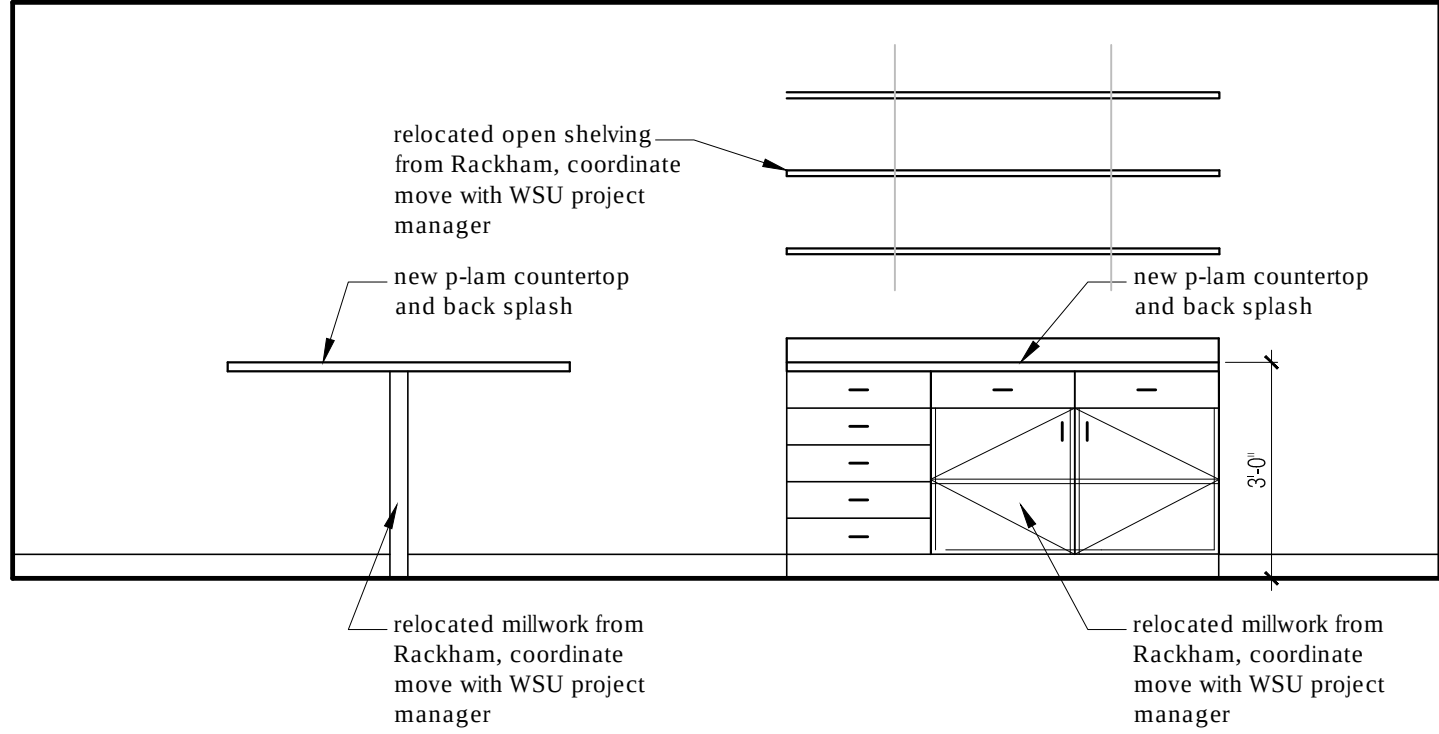
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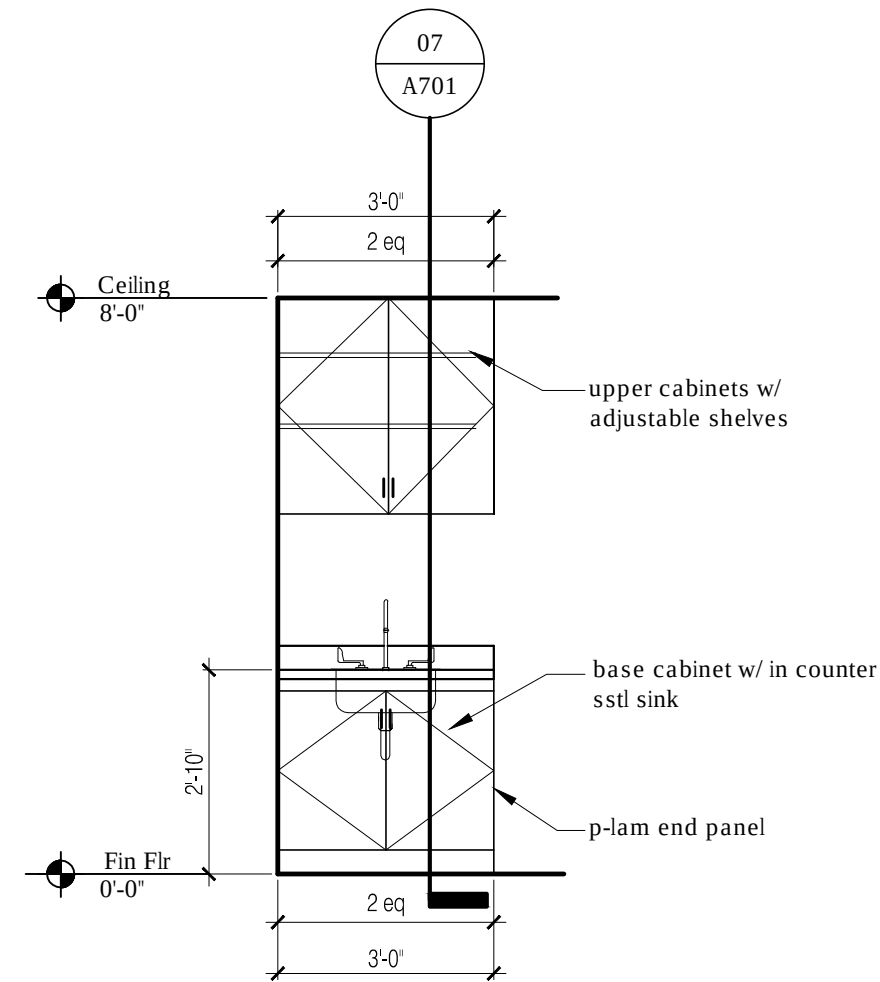
05 Work Room 300.01 Millwork Detail
A701 Scale: 3/8" = 1'-0"



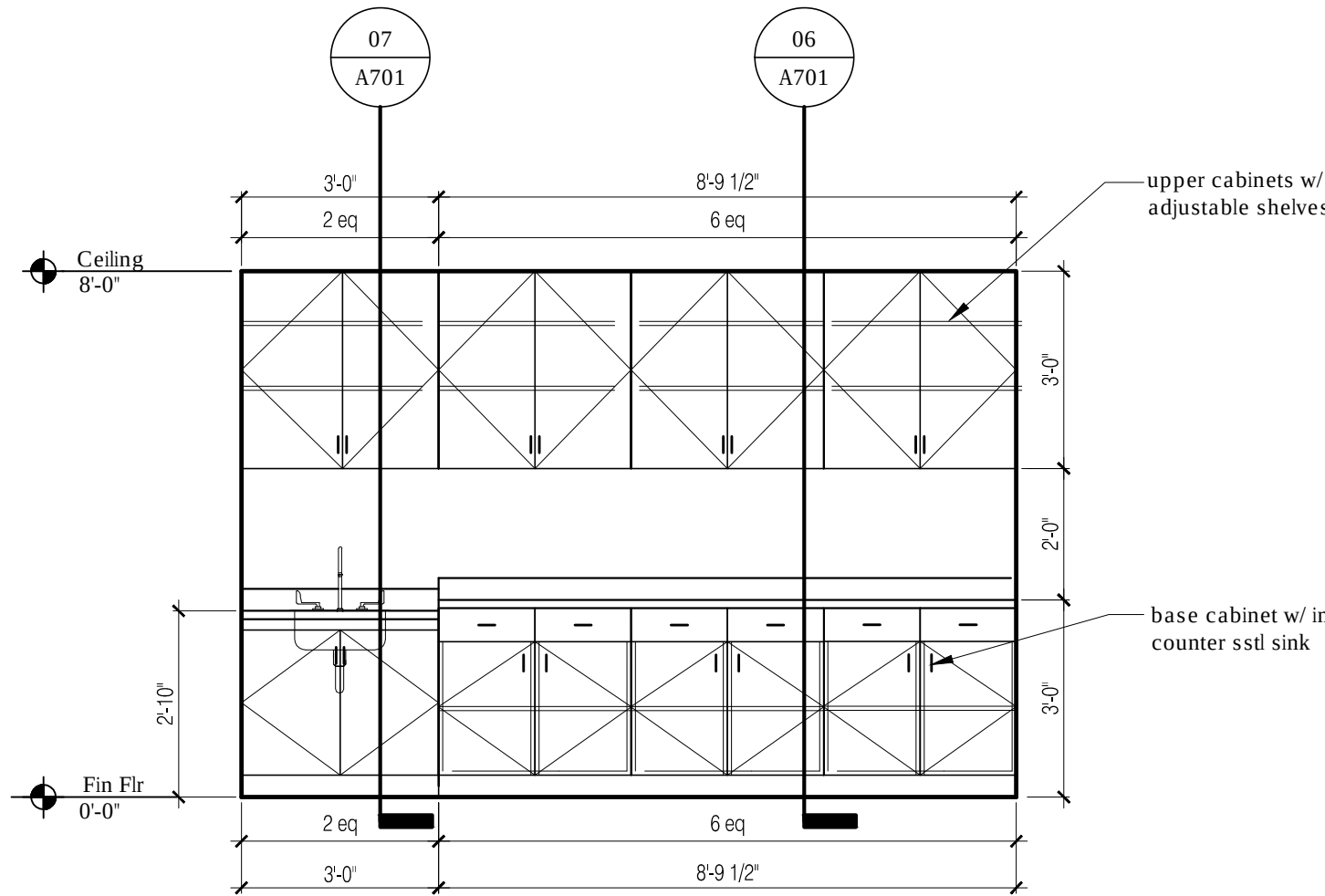
04 Work Room 300.01 Millwork Detail
A701 Scale: 3/8" = 1'-0"



03 Work Room 300.01 Millwork Detail
A701 Scale: 3/8" = 1'-0"



02 Hearing Aid Fitting Room
005.1 Millwork Detail
A701 Scale: 3/8" = 1'-0"



01 Work Room 105.3 Millwork Detail
A701 Scale: 3/8" = 1'-0"

NAME

LEVEL NAME

10' - 0"

INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

VIEW NAME

1

1/8" = 1'-0"

PLAN OR DETAIL SCALE

LINE TYPE KEY:

NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)

NEW WORK BY OTHERS AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE)

EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK SHORT DASHED LINE)

VENTILATION ABBREVIATION KEY	
ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
CD-E	CEILING DIFFUSER - EXISTING
CFSD	CONTROL/FIRE/SMOKE DAMPER
EA	EXHAUST/RELIEF AIR
EFD	EXISTING FIRE DAMPER
FD	FIRE DAMPER
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FSD	FIRE/SMOKE DAMPER
MA	MIXED AIR
NC	NEW CONNECTION
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
SD	SMOKE DAMPER
TAB	TERMINAL AIR BOX
TD	TRANSFER DUCT
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

CONTRACTOR ABBREVIATION KEY	
ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
A.V.C.	AUDIO/VISUAL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

SYMBOL:

DESCRIPTION:

DIRECTION OF AIR FLOW

FLEXIBLE DUCT

MANUAL VOLUME DAMPER

RISE IN DIRECTION OF AIR FLOW

DROP IN DIRECTION OF AIR FLOW

DUCT CAP

DUCT DOWN

DUCT UP

SUPPLY/OUTSIDE AIR DUCT SECTION

RETURN AIR DUCT SECTION

EXHAUST/RELIEF AIR DUCT SECTION

4-WAY DIFFUSER WITH BLANKOFF IN ONE DIRECTION

AIR TERMINAL PROPERTIES SYMBOL
NECK SIZE/CFM

TERMINAL AIR BOX (REFER TO SCHEDULE)

TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)

SERIES FAN POWERED TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)

PARALLEL FAN POWERED TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)

OPPOSED BLADE DAMPER (REFER TO SCHEDULE)

PARALLEL BLADE DAMPER (REFER TO SCHEDULE)

DIFFERENTIAL PRESSURE SENSOR

CARBON MONOXIDE SENSOR

CARBON DIOXIDE SENSOR

HUMIDISTAT SENSOR

HUMIDISTAT/SENSOR (DUCT MOUNTED)

OCCUPANCY SENSOR

PRESSURE SENSOR/MONITOR

PRESSURE SENSOR (DUCT MOUNTED)

THERMOSTAT/SENSOR

TEMPERATURE SENSOR (DUCT MOUNTED)

THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE

AIRFLOW MEASUREMENT SYMBOL
XX - AHU SYMBOL
Y - SEQUENTIAL NUMBER

APPLICABLE CODES	
CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS.	
BUILDING CODE:	MBC 2015 EDITION
FIRE CODE:	NFPA 13: 2013 EDITION
PLUMBING CODE:	MBC 2015 EDITION
MECHANICAL CODE:	MMC 2015 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2016EDITION
LIFE SAFETY CODE:	NFPA 101 2015 EDITION
ENERGY CONSERVATION CODE:	ASHRAE 90.1 2013
HEALTH DEPARTMENT CODE:	CURRENT EDITION
LOCAL BUILDING CODE:	CURRENT EDITION

VENTILATION SHEET INDEX	
MH-000	VENTILATION COVERSHEET
MHD-101-B	BASEMENT FLOOR DEMOLITION - VENTILATION
MHD-103	THIRD FLOOR DEMOLITION - VENTILATION
MH-101-B	BASEMENT FLOOR - VENTILATION
MH-103	THIRD FLOOR PLAN - VENTILATION
MH-300	VENTILATION SCHEDULES & DETAILS

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
- DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
- COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
- REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
- ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
- SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
- CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
- WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
- EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
- DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
- MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS.
- PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
- DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
- NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
- FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
- EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF HIS/HER WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR CONSTRUCTION MANAGER, ARCHITECT/ENGINEER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO HIS/HER AREA OF WORK.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING. EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH HIS WORK.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
- WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
- PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
- OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
- MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM DUCTWORK.
- DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

VENTILATION GENERAL NOTES:

- THE SIZE OF EACH BRANCH DUCT TO A TERMINAL AIR BOX (TAB) SHALL MATCH THE TAB'S INLET SIZE UNLESS THE BRANCH IS GREATER THAN 6 FEET IN LENGTH, IN WHICH CASE THE BRANCH SHOLD BE INCREASED ONE DUCT SIZE, OR NOTED OTHERWISE.
- ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER.
- PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.
- EXISTING AIR INLET AND OUTLET CFM SHOWN ON DRAWINGS ARE FROM EXISTING DRAWINGS, AND ARE FOR REFERENCE ONLY. CONTRACTOR SHALL USE PRE-BALANCE VALUES, AND NOT EXISTING CFM SHOWN ON DRAWINGS.
- CONTRACTOR MAY REUSE PORTIONS OF EXISTING DUCT PROVIDED SIZES AND PRESSURE CLASSES ARE CORRECT, DUCT IS THOROUGHLY CLEANED AND FREE OF DEFECTS, AND ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS ARE SEALED AS SPECIFIED FOR NEW DUCTWORK.
- CLEAN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK UPSTREAM OF ALL NEW CONNECTIONS PER SPECIFICATION SECTION 23 31 00.

TAB PRE-DEMOLITION NOTES:

- BEFORE ANY DEMOLITION WORK IS BEGUN A COMPLETE AIR BALANCE TEST SHALL BE PERFORMED BY THE TESTING, ADJUSTING AND BALANCING (TAB) CONTRACTOR ON EXISTING AIR HANDLERS AND EXHAUST FANS SERVING THE AREAS AFFECTED BY CONSTRUCTION. EQUIPMENT TO BE DEMOLISHED DOES NOT REQUIRE TESTING. PROVIDE AIR BALANCE TESTING ONLY ON EQUIPMENT THAT WILL CONTINUE TO BE USED TO SERVE RENOVATED AREAS AFTER THE CONSTRUCTION PHASE IS COMPLETED.
- PROVIDE DUCT TRAVERSE READINGS AT LOCATIONS DESIGNATED ON THE DRAWINGS BY THE "AIRFLOW MEASUREMENT SYMBOL". THOSE MEASUREMENTS SHALL BE INCLUDED IN THE PRE DEMOLITION REPORT AND SHALL BE DESIGNATED WITH THE IDENTIFIER AS MARKED ON THE DRAWINGS. READINGS SHALL BE DESIGNATED WITH THE ROOM NAME AND NUMBER AS MARKED ON THE DRAWINGS. IF FLOOR PLANS DO NOT HAVE UNIQUE ROOM NAMES AND NUMBERS, TAB CONTRACTOR SHALL INCLUDE FLOOR PLAN WITH UNIQUE NUMBER DESIGNATIONS ASSIGNED TO READINGS THAT MATCH THOSE USED IN THE FINAL PRE-DEMOLITION REPORT. DRAWINGS THAT ARE HAND-MARKED WITH RED INK ARE ACCEPTABLE, PROVIDED THEY ARE LEGIBLE.
- IN THE EVENT A DUCT TRAVERSE LOCATION AS MARKED ON THIS PLAN IS INACCESSIBLE FOR MEASUREMENT, THE TAB CONTRACTOR SHALL PERFORM THE TRAVERSE AT AN ALTERNATE LOCATION OR SHALL TAKE MULTIPLE DUCT TRAVERSES AND/OR READINGS AS REQUIRED TO DETERMINE THE AIRFLOW READING WHERE THE DUCT TRAVERSE SYMBOL IS SHOWN. IN THE EVENT TRAVERSES ARE TAKEN AT ALTERNATE LOCATION(S), TAB CONTRACTOR SHALL INCLUDE A DRAWING THAT SHOWS THE LOCATIONS WHERE THE ACTUAL MEASUREMENTS WERE TAKEN.
- TAKE A DUCT STATIC PRESSURE READING AT EACH LOCATION WHERE A DUCT TRAVERSE READING IS TAKEN AND INCLUDE IN THE FINAL PRE-DEMOLITION TAB REPORT.
- TAB CONTRACTOR SHALL COMPILER AND SUBMIT FOUR COPIES OF THE FINAL PRE-DEMOLITION REPORT WITHIN 10 WORKING DAYS AFTER THE FIELD MEASUREMENTS ARE COMPLETED. FINAL TAB REPORT SHALL BE SUBMITTED FOR REVIEW TO THE ARCHITECT/ENGINEER. TESTING SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.
- TAB CONTRACTOR SHALL PROVIDE DUCT TRAVERSE READINGS AT LOCATIONS DESIGNATED ON THE DRAWINGS BY THE "AIRFLOW MEASUREMENT SYMBOL". THOSE MEASUREMENTS SHALL BE INCLUDED IN THE POST-CONSTRUCTION REPORT AND SHALL BE DESIGNATED WITH THE IDENTIFIER AS MARKED ON THE CONSTRUCTION DRAWINGS. GRILLE AND DIFFUSER READINGS SHALL BE DESIGNATED WITH THE ROOM NAME AND NUMBER AS MARKED ON THE DRAWINGS. IF THE DRAWINGS DO NOT HAVE UNIQUE ROOM NAMES AND NUMBERS, TAB CONTRACTOR SHALL INCLUDE FLOOR PLANS WITH UNIQUE NUMBER DESIGNATIONS ASSIGNED TO TRAVERSES, GRILLES, AND DIFFUSERS THAT MATCH THOSE USED IN THE FINAL PRE-DEMOLITION REPORT. SIMILAR ROOM NAMES, NUMBERS, OR DESIGNATIONS SHALL BE USED TO SIMPLIFY THE CROSS-REFERENCING OF READINGS TAKEN BETWEEN PRE-DEMOLITION AND POST-CONSTRUCTION REPORTS.
- BALANCING CONTRACTOR SHALL PRE-BALANCE ALL EXISTING SYSTEMS TO REMAIN PER SPECIFICATION SECTION 23 05 93. BALANCE READINGS WILL BE REQUIRED AT AIR OUTLETS AND DUCT TRAVERSES TO VERIFY EXISTING AIRFLOW TO UNAFFECTED SPACES.

TAB POST-CONSTRUCTION NOTES:

- AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE, TESTING, ADJUSTING (TAB) AND BALANCING CONTRACTOR SHALL REBALANCE AIR HANDLER UNITS AND EXHAUST FANS AS REQUIRED TO ACHIEVE THE NEW AIRFLOW VALUES SHOWN ON THE CONSTRUCTION DRAWINGS.
- AREAS SERVED BY THIS EQUIPMENT WHICH WERE NOT RENOVATED SHALL BE RE-BALANCED TO THE AIRFLOW RATES MEASURED BEFORE THE RENOVATION OCCURRED (REFER TO THE FINAL PRE-DEMOLITION REPORT).
- IF DUCT TRAVERSE LOCATION AS MARKED ON THE DRAWINGS IS INACCESSIBLE FOR MEASUREMENT, THE TAB CONTRACTOR SHALL PERFORM THE TRAVERSE AT AN ALTERNATE LOCATION OR SHALL TAKE MULTIPLE DUCT TRAVERSES AND/OR GRILLE READINGS AS REQUIRED TO DETERMINE THE FLOW RATE. IN THE EVENT TRAVERSES ARE TAKEN AT AN ALTERNATE LOCATION(S), TAB CONTRACTOR SHALL INCLUDE A DRAWING THAT SHOWS THE LOCATIONS WHERE THE ACTUAL MEASUREMENTS WERE TAKEN.
- A DUCT STATIC PRESSURE READING SHALL BE TAKEN AT EACH LOCATION WHERE A DUCT TRAVERSE READING IS TAKEN AND SHALL BE INCLUDED IN THE FINAL POST-CONSTRUCTION TAB REPORT.
- TAB CONTRACTOR SHALL COMPILER AND SUBMIT COPIES OF THE FINAL POST-CONSTRUCTION TAB REPORT AS REQUIRED BY SECTION 23 05 93.
- THE FINAL POST CONSTRUCTION REPORT SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.

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IMEG Project Number - 18004050.00

key plan: FLOOR LEVEL

NO SCALE AREA OF WORK

issue: date:

For Bids	Dec. 11, 2018
100% CD's	Dec. 04, 2018
Owner Review 90% CD's	Nov. 27, 2018
Owner Review 60% CD's	Nov. 13, 2018

WAYNE STATE

designed	PETPAP
drawn	KIRSAI
coordination checked	PETPAP
checked	PETPAP
location	Prentis Building

project:
Prentis Building - Rackham Relocation

sheet title:

VENTILATION COVERSHEET

project number: sheet number:
WSU : 00

MH-000

FOR BIDS

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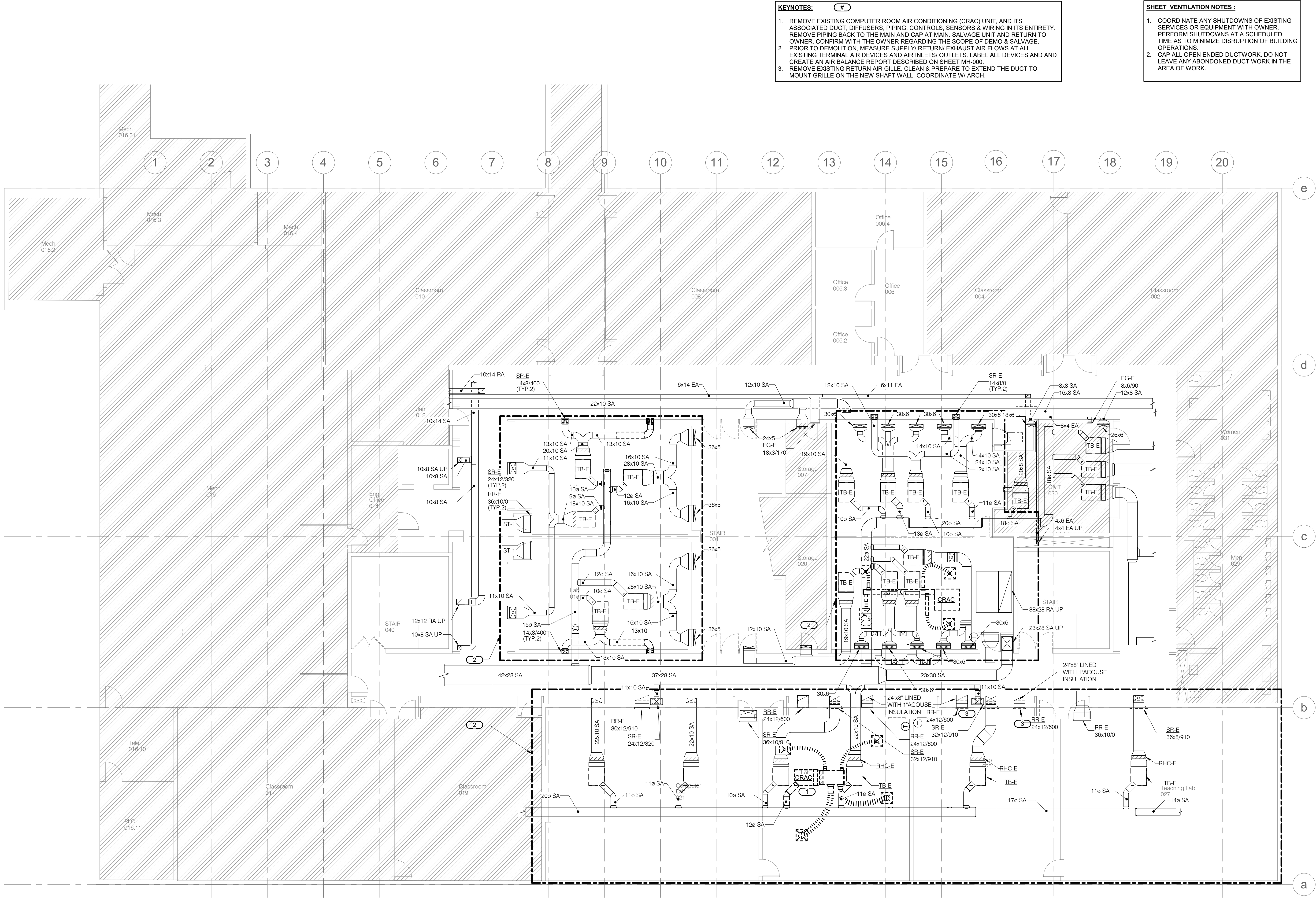
PROJECT # 18004050.00

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REFERENCE SCALE IN INCHES

0 1 2 3



KEYNOTES:

1. REMOVE EXISTING COMPUTER ROOM AIR CONDITIONING (CRAC) UNIT, AND ITS ASSOCIATED DUCT, DIFFUSERS, PIPING, CONTROLS, SENSORS & WIRING IN ITS ENTIRETY. REMOVE PIPING BACK TO THE MAIN AND CAP AT MAIN. SALVAGE UNIT AND RETURN TO OWNER. CONFIRM WITH THE OWNER REGARDING THE SCOPE OF DEMO & SALVAGE.

2. PRIOR TO DEMOLITION, MEASURE SUPPLY/RETURN/EXHAUST AIR FLOWS AT ALL EXISTING TERMINAL AIR DEVICES AND AIR INLETS/OUTLETS. LABEL ALL DEVICES AND AND CREATE AN AIR BALANCE REPORT DESCRIBED ON SHEET MH-000.

3. REMOVE EXISTING RETURN AIR GILLE. CLEAN & PREPARE TO EXTEND THE DUCT TO MOUNT GRILLE ON THE NEW SHAFT WALL. COORDINATE W/ ARCH.

SHEET VENTILATION NOTES:

1. COORDINATE ANY SHUTDOWNS OF EXISTING SERVICES OR EQUIPMENT WITH OWNER. PERFORM SHUTDOWNS AT A SCHEDULED TIME AS TO MINIMIZE DISRUPTION OF BUILDING OPERATIONS.

2. CAP ALL OPEN ENDED DUCTWORK. DO NOT LEAVE ANY ABANDONED DUCT WORK IN THE AREA OF WORK.

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IMEG Project Number - 18004050.00

key plan: FLOOR LEVEL
NO SCALE AREA OF WORK

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Owner Review 90% CD's	Nov. 27, 2018
Owner Review 60% CD's	Nov. 13, 2018



designed	PETPAP
drawn	KIRSAI
coordination checked	PETPAP
checked	PETPAP approved PETPAP
location	Prentis Building

project:
Prentis Building - Rackham Relocation

sheet title:

BASEMENT FLOOR DEMOLITION - VENTILATION

project number: sheet number:
WSU - 00
MHD-101-B

1 BASEMENT FLOOR DEMOLITION - VENTILATION
1/8" = 1'-0"

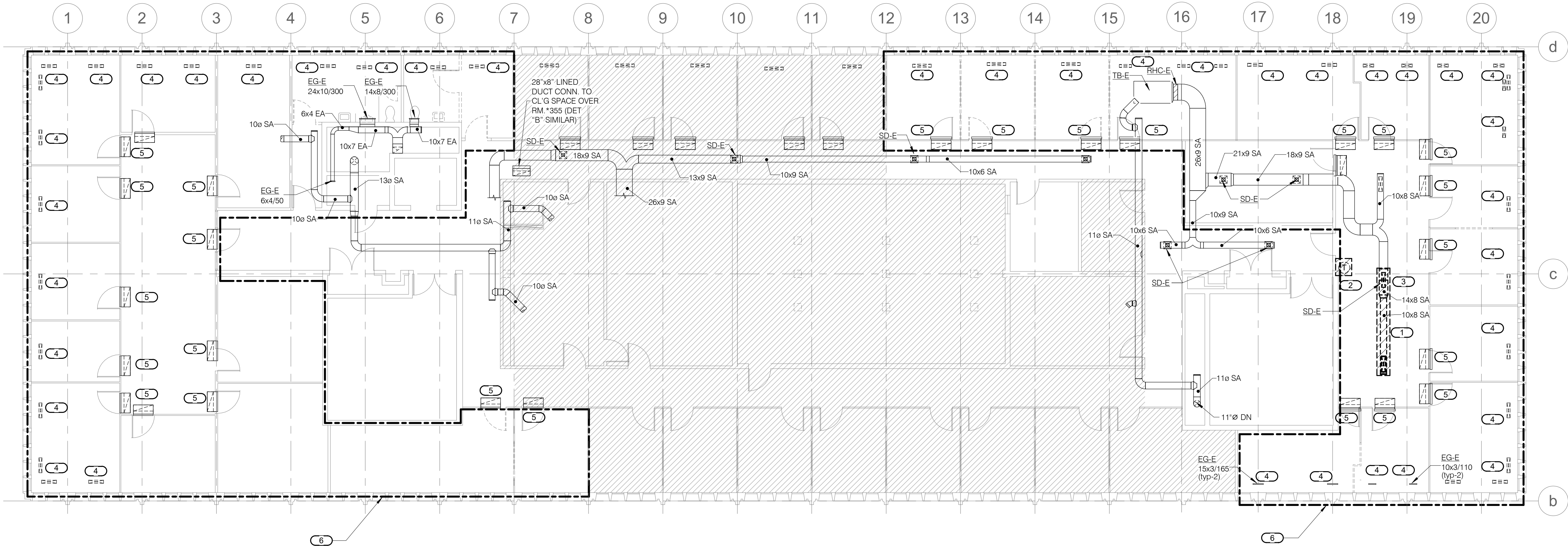
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REFERENCE SCALE IN INCHES
1 2 3

FOR BIDS



2 THIRD FLOOR DEMOLITION - VENTILATION
1/8" = 1'-0"

KEYNOTES: #

1. DEMOLISH EXISTING DUCTWORK, CEILING SUPPLY & RETURN DIFFUSERS AND ASSOCIATED ACCESSORIES BACK TO THE POINT AS SHOWN.
2. REMOVE EXISTING VAV BOX TEMPERATURE SENSOR, DISCONNECT CONTROL AND PREPARE TO MOUNT THE SENSOR AT NEW LOCATION.
3. REMOVE EXISTING SUPPLY DIFFUSER, CLEAN AND PREPARE TO INSTALL AT NEW LOCATION.
4. REMOVE EXISTING SUPPLY AIR FLOOR REGISTER, CLEAN AND PREPARE FOR INSTALLATION OF NEW FLOOR REGISTERS. CONFIRM W/ THE OWNER & ARCH FOR THE EXISTING REGISTERS TO BE CLEANED & REUSED IN LIEU OF NEW REGISTERS.
5. DISCONNECT AND REMOVE EXISTING RETURN AIR GRILLE, CLEAN AND PREPARE FOR REINSTALLATION.
6. PRIOR TO DEMOLITION, MEASURE SUPPLY/ RETURN/ EXHAUST AIR FLOWS AT ALL EXISTING TERMINAL AIR DEVICES AND AIR INLETS/ OUTLETS. LABEL ALL DEVICES AND AND CREATE AN AIR BALANCE REPORT DESCRIBED ON SHEET MH-000.

SHEET GENERAL NOTES :

1. COORDINATE ALL DEMOLITION WORK WITH ARCHITECTURAL AND ELECTRICAL AND ELECTRICAL DEMOLITION WITH OWNER'S PROJECT REPRESENTATIVE.
2. COORDINATE ANY SHUTDOWNS OF EXISTING SERVICES OR EQUIPMENT WITH OWNER. PERFORM SHUTDOWNS AT A SCHEDULED TIME AS TO MINIMIZE DISRUPTION OF BUILDING OPERATIONS.
3. REMOVE ALL INDICATED DUCTWORK AND EQUIPMENT COMPLETELY INCLUDING ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, CONTROLS AND ACCESSORIES.
4. CAP ALL THE OPEN ENDED DUCTWORK. DO NOT LEAVE ANY ABANDONED DUCT WORK IN THE AREA OF WORK.

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IMEG Project Number - 18004050.00

key plan: FLOOR LEVEL

NO SCALE AREA OF WORK



issue: date:

For Bids	Dec. 11, 2018
100% CD's	Dec. 04, 2018
Owner Review 90% CD's	Nov. 27, 2018
Owner Review 60% CD's	Nov. 13, 2018



designed	PETPAP
drawn	KIRSAI
coordination checked	PETPAP
checked	PETPAP
approved	PETPAP
location	Prentis Building

project:
Prentis Building - Rackham Relocation

sheet title:

THIRD FLOOR DEMOLITION - VENTILATION

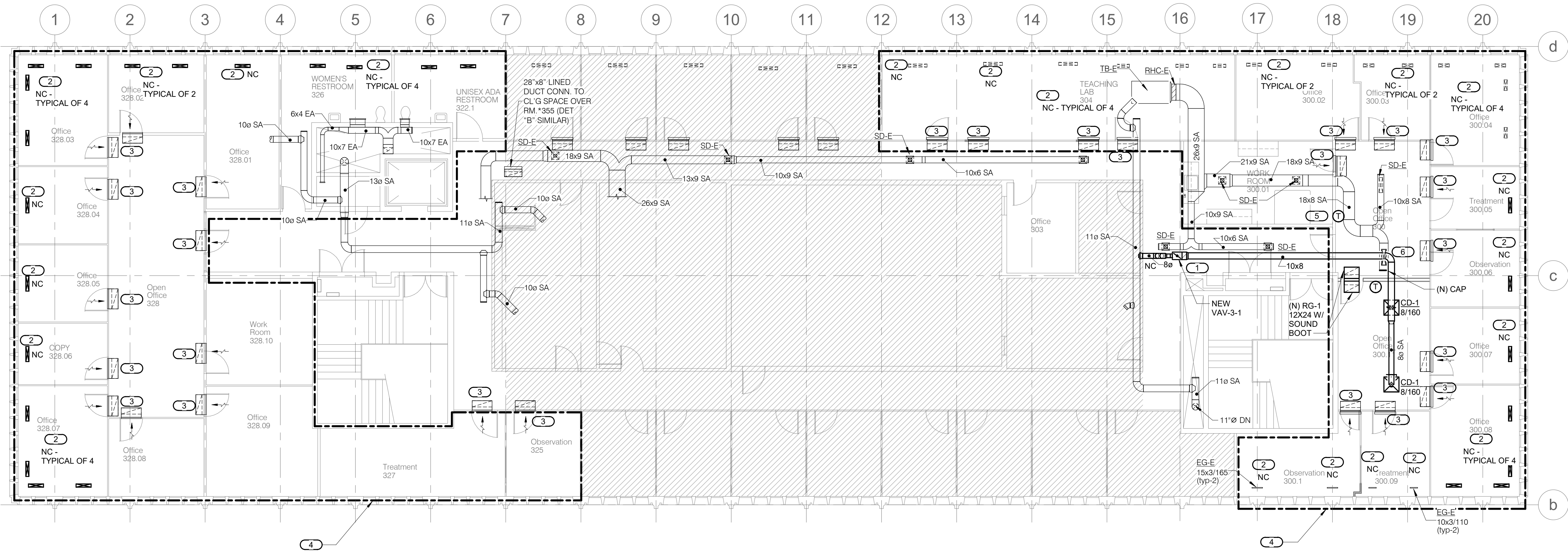
project number: sheet number:
WSU : 00

MHD-103

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0 1 2 3



1

THIRD FLOOR PLAN - VENTILATION

1/8" = 1'-0"

KEYNOTES:

1. INSTALL AIR TERMINAL BOXES AND THEIR ASSOCIATED TEMPERATURE SENSORS, CONTROLS AND SUPPLY/RETURN/EXHAUST INLETS/OUTLETS AS SHOWN. INSTALL PER DETAILS ON MH-300. AIR TERMINAL BOX INSTALLATION SHALL BE PER MANUFACTURER AND PROVIDE SUFFICIENT CLEARANCE & SERVICE SPACES. UNIT CONTROLLER SHALL BE COMPATIBLE W/ EXISTING BUILDING CONTROL SYSTEM AND SHALL BE CONFIRMED BY THE OWNER.
2. PROVIDE AND INSTALL NEW SUPPLY AIR REGISTER AT EXISTING LOCATION. REGISTER SHALL MATCH EXISTING SIZE, LOCATION, AND FINISH. CONFIRM W/ THE OWNER & ARCH FOR THE EXISTING REGISTERS TO BE CLEANED & REUSED IN LIEU OF NEW REGISTERS.
3. CLEAN & REINSTALL EXISTING RETURN AIR GRILLE TO EXISTING LOCATION.
4. REBALANCE TO EXISTING AIR FLOW INDICATED ON PREDEMOLITION AIR BALANCE REPORT WHERE NO NEW AIR FLOW INFORMATION IS INDICATED ON THE DRAWING.
5. REINSTALL EXISTING VAV BOX TEMPERATURE SENSOR, RECONNECT CONTROL BACK TO EXISTING VAV AND CHECK THE VAV CONTROLS.
6. CLEAN & REINSTALL EXISTING SUPPLY DIFFUSER AT THE NEW LOCATION. CAP THE EXISTING DUCT AT THE DEMO POINT.

SHEET GENERAL NOTES:

1. COORDINATE FINAL DUCT AND PIPING ROUTES WITH EXISTING DUCT, PIPING ON SITE.
2. COORDINATE ANY SHUTDOWNS OF EXISTING SERVICES OR EQUIPMENT WITH OWNER. PERFORM SHUTDOWNS AT A SCHEDULED TIME AS TO MINIMIZE DISRUPTION OF BUILDING OPERATIONS.
3. CAP ALL OPEN ENDED DUCTWORK. DO NOT LEAVE ANY ABANDONED DUCT WORK IN THE AREA OF WORK.
4. PROVIDE ACCESS DOOR IN HARD CEILINGS WHERE NECESSARY TO PROVIDE ACCESS TO TERMINAL AIR BOXES AND OTHER EQUIPMENT LOCATED ABOVE CEILING.
5. PROVIDE ACCESS PANELS WHERE REQUIRED TO ALLOW ACCESS TO BALANCING DAMPER.

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key plan: FLOOR LEVEL

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location Prentis Building

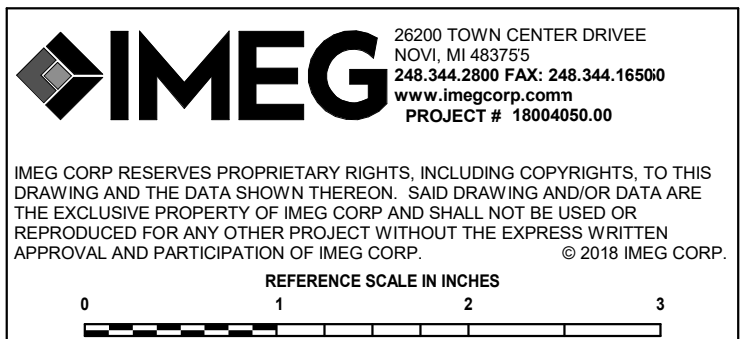
project:
Prentis Building - Rackham Relocation

sheet title:

THIRD FLOOR PLAN - VENTILATION

project number: sheet number:
WSU : 00

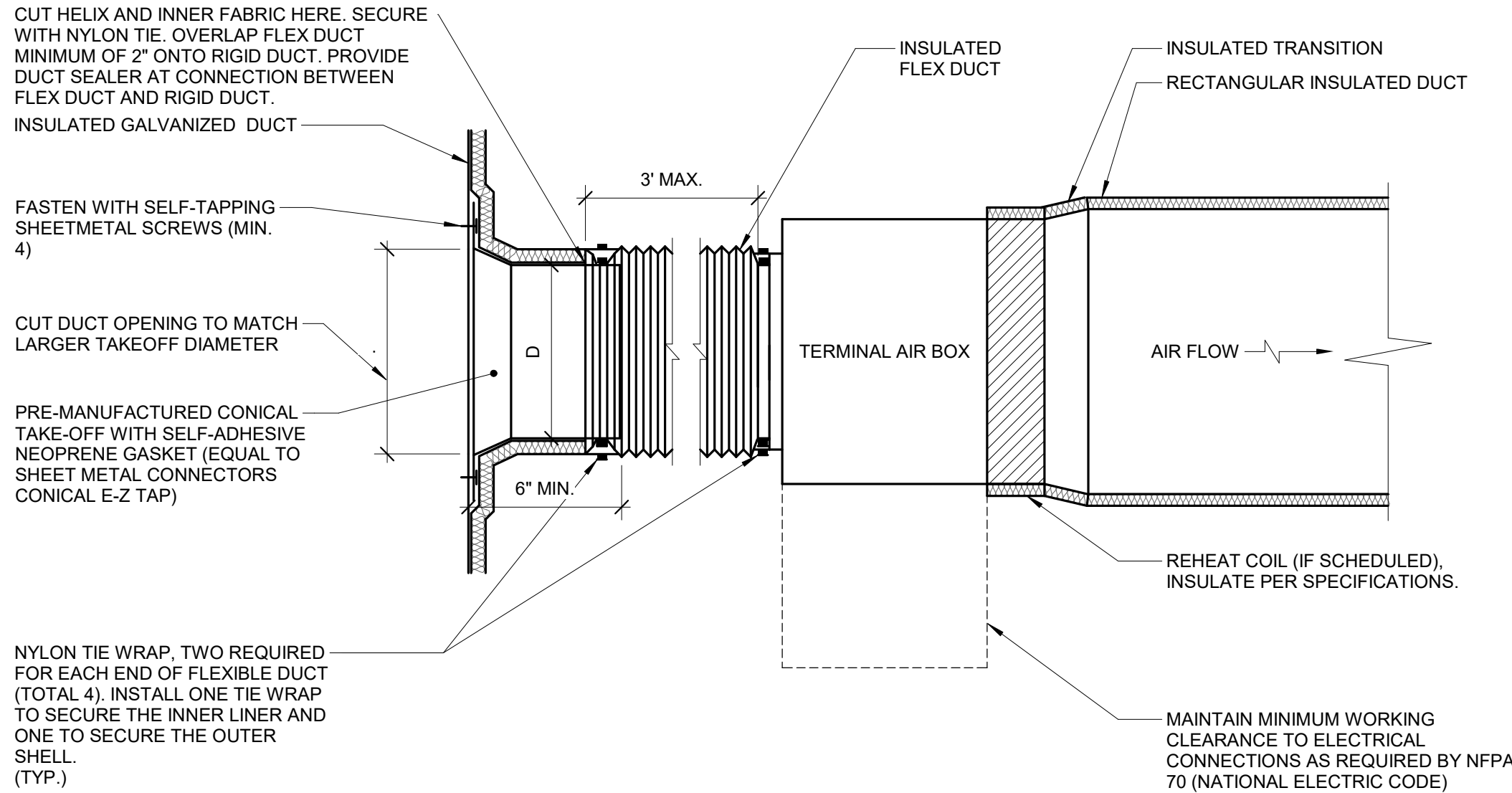
MH-103



FOR BIDS

DIFFUSER-REGISTER-GRILLE SCHEDULE								
MARK	SERVICE	MODULE SIZE	CFM RANGE	MIN DUCT CONNECTION (IN)	NOMINAL NECK SIZE (IN)	MAX NC	DESCRIPTION	REMARKS
CD-1	SUPPLY AIR CEILING DIFFUSER	24 X 24	1-200	6"	6"	30	SQUARE LAY -IN CEILING MOUNTING	ALUMINUM CONSTRUCTION NECK MOUNTED OPOSED BLADE DAMPER
			201-345	8"	8"	30		
SG-1	SUPPLY AIR REGISTER	SAME AS DUCT CONNECTION PLUS FRAME	1-450	12 X 8		30	DOUBLE DEFLECTION BLADES WALL MOUNTED	ALUMINUM CONSTRUCTION NECK MOUNTED OPOSED BLADE DAMPER
RG-1	RETURN AIR GRILLE	12 X 12	0-200	10X10	12x12	30	CEILING MOUNTED SEE FLOOR PLAN	ALUMINUM CONSTRUCTION
		24 X 24	201-2000	22x22	24X24	30		
NOTES: 1. SIZES INDICATED ARE TYPICAL. REFER TO PLANS FOR ADDITIONAL REQUIRED SIZES AND CFM.								

NEW VARIABLE AIR VOLUME BOX SCHEDULE - HOT WATER HEATING																		
MARK	SERVICE	CFM RANGE		INLET SIZE (IN.)	SOUND LEVELS		MINIMUM INLET PRESSURE IN. WG.	HOT WATER HEATING INFORMATION								BASIS OF DESIGN	NOTES	
		CLG. MAX.	CLG. MIN.		RADIATED NC	DISCH. NC		HTG. AIR FLOW	HTG. MBH	EAT °F	LAT °F	APD IN. WG.	EWI °F	LWT °F	FLUID GPM			MAX. WPD FT.
VAV-B-1	OFFICE 013.1	150	50	6	<30	<30	SEE MFGR.	75	2.8	55	90	<0.1	180	160	0.3	0.5	TITUS ESV	CONTROLLER TO BE CONFIRM W/ OWNER, UNIT WITH TWO ROW COIL
VAV-B-2	OFFICE 013.2	150	50	6	<30	<30	SEE MFGR.	75	2.8	55	90	<0.1	180	160	0.3	0.5	TITUS ESV	CONTROLLER TO BE CONFIRM W/ OWNER, UNIT WITH TWO ROW COIL
VAV-B-3	LAB 023.1	200	100	6	<30	<30	SEE MFGR.	100	3.8	55	90	<0.1	180	160	0.4	0.5	TITUS ESV	CONTROLLER TO BE CONFIRM W/ OWNER, UNIT WITH TWO ROW COIL
VAV-B-4	HEARING AID FITTING005.1	250	75	6	<30	<30	SEE MFGR.	100	3.8	55	90	<0.1	180	160	0.4	0.5	TITUS ESV	CONTROLLER TO BE CONFIRM W/ OWNER, UNIT WITH TWO ROW COIL
VAV-B-5	SUPERVOR OFFICE 005.3	200	60	6	<30	<30	SEE MFGR.	100	3.8	55	90	<0.1	180	160	0.4	0.5	TITUS ESV	CONTROLLER TO BE CONFIRM W/ OWNER, UNIT WITH TWO ROW COIL
VAV-B-6	OFFICE 005.4	300	100	6	<30	<30	SEE MFGR.	200	7.6	55	90	<0.1	180	160	0.8	0.5	TITUS ESV	CONTROLLER TO BE CONFIRM W/ OWNER, UNIT WITH TWO ROW COIL
VAV-B-7	LAB 015 SOUND BOOTH	150	100	6	<30	<30	SEE MFGR.	100	3.8	55	90	<0.1	180	160	0.4	0.5	TITUS ESV	CONTROLLER TO BE CONFIRM W/ OWNER, UNIT WITH TWO ROW COIL
VAV-B-8	LAB 025 SOUND BOOTH	300	200	6	<30	<30	SEE MFGR.	200	7.6	55	90	<0.1	180	160	0.8	0.5	TITUS ESV	CONTROLLER TO BE CONFIRM W/ OWNER, UNIT WITH TWO ROW COIL
VAV-3-1	OPEN OFFICE 300.11	320	150	8	<30	<30	SEE MFGR.	150	6.5	55	95	<0.1	180	160	0.6	0.5	TITUS ESV	CONTROLLER TO BE CONFIRM W/ OWNER, UNIT WITH TWO ROW COIL
NOTES: 1. FOR SINGLE DUCT VAV/CAV TERMINAL UNITS - RADIATED SOUND POWER DATA FOR 100% PRIMARY AIR VALVE FLOW IS TO BE ARI CERTIFIED AND IS NOT TO EXCEED 66 DB (REFERENCE 10 -12 WATTS) IN THE 2ND OCTAVE BAND AT THE MAXIMUM PRIMARY AIR FLOW INDICATED IN THE SCHEDULE AND WITH 1.5" W.C. INLET STATIC PRESSURE. 2. FOR SINGLE DUCT VAV/CAV TERMINAL UNITS - DISCHARGE SOUND POWER DATA FOR 100% PRIMARY AIR VALVE FLOW IS TO BE ARI CERTIFIED AND IS NOT TO EXCEED 74 DB (REFERENCE 10 -12 WATTS) IN THE 2ND OCTAVE BAND AT THE MAXIMUM PRIMARY AIR FLOW INDICATED IN THE SCHEDULE AND WITH 1.5" W.C. INLET STATIC PRESSURE. 3. COIL ENTERING AIR TEMPS AND HEATING CAPACITIES BASED ON 48F PRIMARY AIR, 88F PLENUM AIR AND 72F ROOM HEATING SETPOINT. 4. INSTALL A SIGN ON THE EXTERIOR OF THE AIR TERMINAL UNITS AT THE SERVICE ACCESS LOCATION INDICATING THE SOURCE AHU THAT IS PROVIDING THE SUPPLY AIR AND THE ROOMS THAT ARE BEING SERVED.																		



- NOTES:
- THIS DETAIL APPLIES ONLY TO TAPS OFF WRAPPED DUCTS.
 - THIS DETAIL APPLIES TO TERMINAL AIR BOXES WITH ROUND INLETS AND RECTANGULAR OUTLETS.
 - DUCT LEADING TO TAB INLET MUST BE STRAIGHT FOR 1.5 DIAMETER UPSTREAM.
 - MAINTAIN VAPOR BARRIER FROM MAIN TO BRANCH DUCT.

1 TERMINAL AIR BOX DETAIL

NO SCALE

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key plan: FLOOR LEVEL
NO SCALE AREA OF WORK

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coordination checked	PETPAP
checked	PETPAP
approved	PETPAP
location	Prentis Building

project:
Prentis Building - Rackham
Relocation

sheet title:

VENTILATION SCHEDULES &
DETAILS

project number: sheet number:
WSU : 00

MH-300

FOR BIDS

NAME

10' - 0"

HEIGHT ABOVE PROJECT 0' - 0"

INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

VIEW NAME

1/8" = 1'-0"

PLAN OR DETAIL SCALE

LINE TYPE KEY:

NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)

NEW WORK BY OTHERS AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE)

EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK SHORT DASHED LINE)

PLUMBING SYMBOL LIST	
NOT ALL SYMBOLS MAY APPLY.	
SYMBOL:	DESCRIPTION:
	ACID VENT
	ACID WASTE
	COMPRESSED AIR
	COLD WATER - POTABLE
	DRAIN
	DEIONIZED WATER
	DRAIN TILE
	NATURAL GAS
	GAS REGULATOR VENT
	SANITARY DRAINAGE (GREASE SANITARY DRAINAGE)
	GREASE VENT
	HOT WATER - POTABLE
	HOT WATER CIRCULATING - POTABLE
	HOT WATER - POTABLE NUMBER INDICATES TEMP
	HOT WATER CIRC. - POTABLE NUMBER INDICATES TEMP
	PUMPED DISCHARGE
	PIPE CONTINUATION
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
	ROUTE TO DRAIN
	ROOF DRAIN PROPERTIES SYMBOL SIZE (ROOF SQ. FT.)
	NEW CONNECTION
	DIELECTRIC CONNECTION
	UNION/FLANGE
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
	BALANCING VALVE (NUMBER INDICATES GPM)
	CHECK VALVE
	SAFETY/RELIEF VALVE
	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)
	TEMPERATURE SENSOR WITH WELL
	THERMOMETER WITH WELL (DIAL TYPE)
	THERMOMETER WITH WELL (FILLED TYPE)
	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/F0B

PLUMBING ABBREVIATION KEY	
ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BT	BATHTUB
CB	CATCH BASIN
CI	CAST IRON
CO	CLEANOUT
CS	CLINICAL SINK
DB	DIALYSIS BOX
DF	DRINKING FOUNTAIN
DI	DUCTILE IRON
E	EXISTING
EE	EMERGENCY EYEWASH
ES	EMERGENCY SHOWER
ESE	EMERGENCY SHOWER/EYEWASH
EWC	ELECTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
GD	GARBAGE DISPOSER
GI	GREASE INTERCEPTOR
I.E.	INVERT ELEVATION (FOR REFERENCE ONLY)
LAV	LAVATORY
MB	MOP BASIN
MV	MIXING VALVE
NC	NEW CONNECTION
NIC	NOT IN CONTRACT
SK	SINK
TP	TRAP PRIMER
TYP	TYPICAL
VTR	VENT THINGH THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER
UNO	UNLESS NOTED OTHERWISE

CONTRACTOR ABBREVIATION KEY	
ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
A.V.C.	AUDIO/VISUAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
- NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
- FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
- EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF HIS/HER WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR CONSTRUCTION MANAGER ARCHITECT/ENGINEER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO HIS/HER AREA OF WORK.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH HIS WORK.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
- WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
- PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
- OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
- MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
- DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

MECHANICAL PHASING NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER TO GENERAL CONTRACTOR'S INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
- REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
- PROVIDE TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ZONE VALVES, ZONE ALARMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.
- INSTALL TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUCHOUT ALL PHASES OF THE PROJECT
- PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

PLUMBING GENERAL NOTES:

- THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
- CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.
- CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.
- ALL FIXTURES SHALL CONFORM TO FEDERAL ACT S.3874
- INVERT ELEVATIONS ARE FROM EXISTING DRAWINGS AND MAY NOT BE ACCURATE. VERIFY ALL ELEVATIONS BEFORE BEGINNING WORK.
- VERIFY UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO BEGINNING ANY WORK.
- REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURES.
- FOR CLARITY, NOT ALL VALVES HAVE BEEN SHOWN. PROVIDE SHUTOFF VALVES IN DOMESTIC WATER PIPING SERVING EACH ROOM WITH FIXTURES. ANGLE STOPS SHALL NOT BE CONSIDERED SHUTOFF VALVES.
- EXISTING CONDITIONS ON DEMOLITION PLANS ARE PROVIDED TO INDICATE THE GENERAL SCOPE OF ITEMS TO BE REMOVED. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL DEMOLITION INFORMATION.
- P.C. SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW OR DEMOLITION WORK UNLESS NOTED OTHERWISE. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL INFORMATION.

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
- DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
- COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
- REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
- ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
- SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE.PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
- CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
- WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
- EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
- DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
- MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS.
- PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
- DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

PLUMBING SHEET INDEX

P-000	PLUMBING COVERSHEET
PD-103	THIRD FLOOR DEMOLITION - PLUMBING
P-101-B	BASEMENT FLOOR PLAN - PLUMBING
P-101-M	MEZZANINE FLOOR PLAN - PLUMBING
P-103	SECOND AND THIRD FLOOR PLAN - PLUMBING
P-300	ENLARGED PLUMBING PLANS
P-500	PLUMBING SCHEDULES

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IMEG Project Number - 18004050.00

key plan: FLOOR LEVEL
NO SCALE AREA OF WORK

issue: date:

For Bids	Dec. 11, 2018
100% CD's	Dec. 04, 2018
Owner Review 90% CD's	Nov. 27, 2018
Owner Review 60% CD's	Nov. 13, 2018

designed	PETPAP
drawn	KIRSAI
coordination checked	PETPAP
checked	PETPAP
location	Prentis Building

project:
Prentis Building - Rackham
Relocation

sheet title:

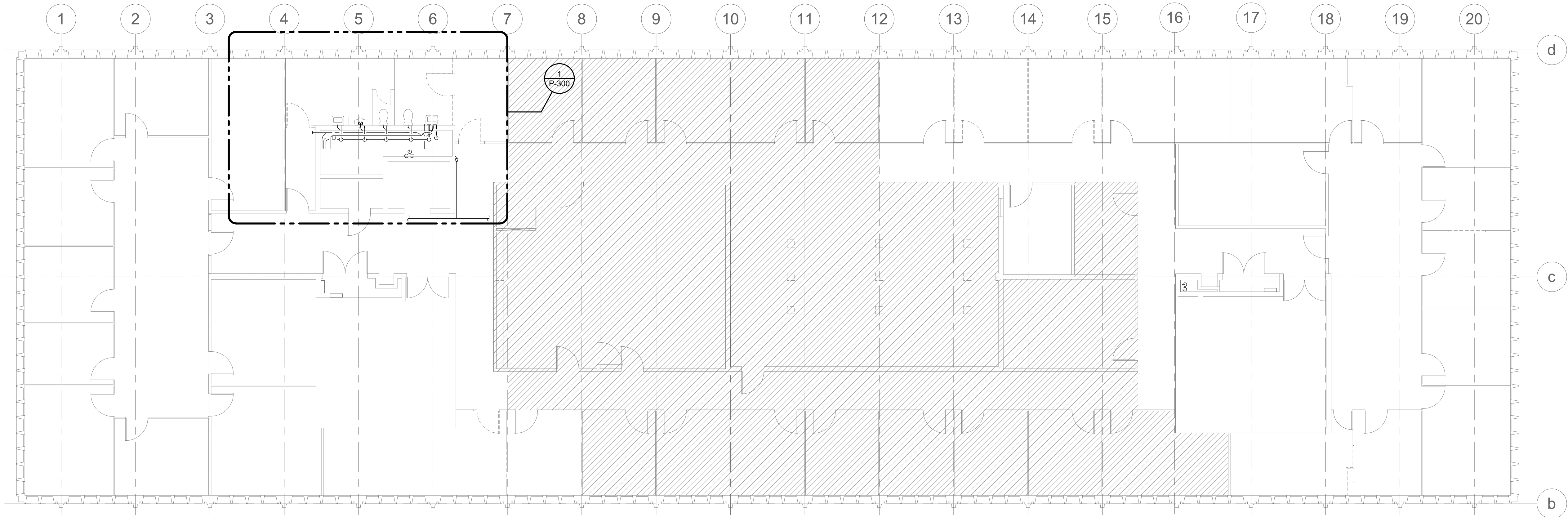
PLUMBING COVERSHEET

project number: sheet number:
WSU : 00

P-000

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2

THIRD FLOOR DEMOLITION - PLUMBING

1/8" = 1'-0"



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checked	PETPAP approved PETPAP
location	Prentis Building

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sheet title:

THIRD FLOOR DEMOLITION -
PLUMBING

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100% CD's	Dec. 04, 2018



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drawn	Author
coordination checked	Checked
checked	Checker
approved	Approved
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sheet title:

**BASEMENT FLOOR PLAN -
PLUMBING**

project number: sheet number:
WSU : 00

P-101-B

FORBIDS



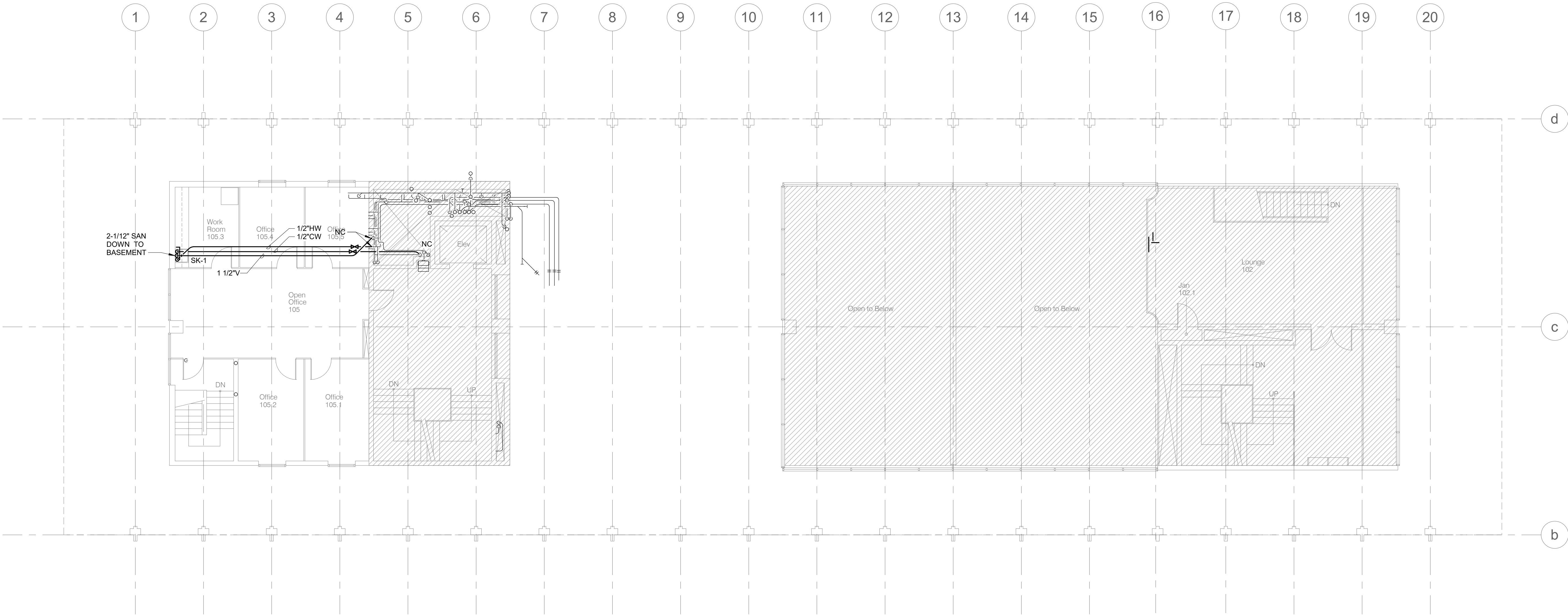
1 BASEMENT FLOOR PLAN - PLUMBING

$$1/8" = 1'-0"$$


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MEZZANINE FLOOR PLAN - PLUMBING

1/8" = 1'-0"

SHEET GENERAL NOTES :

1. COORDINATE ANY SHUTDOWNS OF EXISTING SERVICES OR EQUIPMENT WITH OWNER. PERFORM SHUTDOWNS AT A SCHEDULED TIME AS TO MINIMIZE DISRUPTION OF BUILDING OPERATIONS.

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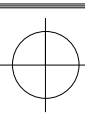


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location	Prentis Building

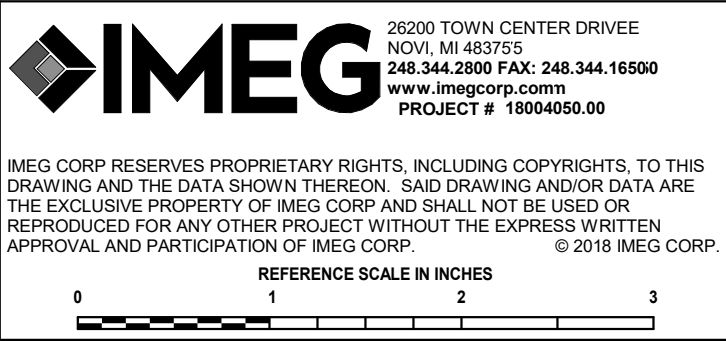
project:
Prentis Building - Rackham Relocation

sheet title:

MEZZANINE FLOOR PLAN - PLUMBING

project number: sheet number:
WSU : 00

P-101-M

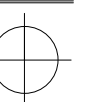


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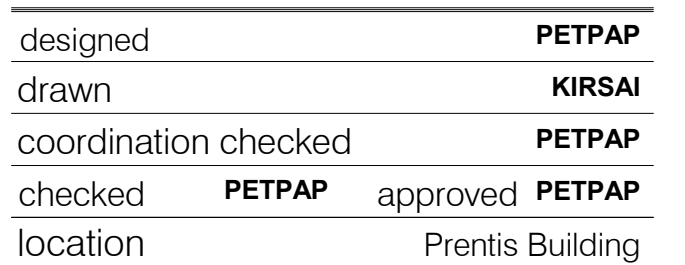
IMEG Project Number - **18004050.00**

key plan: FLOOR LEVEL
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project:
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Relocation

sheet title:

SECOND AND THIRD FLOOR PLAN - PLUMBING

project number: sheet number:
WSU : 00 

P-103

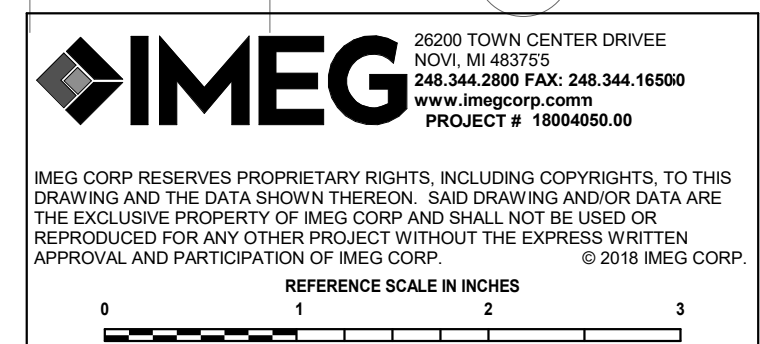
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2 SECOND FLOOR PLAN - PLUMBING

$$1/8'' = 1'-0''$$


1 THIRD FLOOR PLAN - PLUMBING

$$1/8'' = 1'-0''$$




1. COORDINATE ANY SHUTDOWNS OF EXISTING SERVICES OR EQUIPMENT WITH OWNER. PERFORM SHUTDOWNS AT A SCHEDULED TIME AS TO MINIMIZE DISRUPTION OF BUILDING OPERATIONS.

1. DEMOLISH EXISTING LAV. REWORK EXISTING PLUMBING TO PREPARE FOR NEW FIXTURE INSTALLATION.
2. DEMOLISH EXISTING URINAL. CUT AND CAP ASSOCIATED PIPING AT WALL. PATCH WALL AS REQUIRED.
3. PROVIDE AND INSTALL NEW LAV. CONNECT NEW 1/2" DHW, DCW ISOLATION VALVE, 1-1/2" SANITARY AND VENT.

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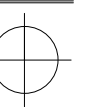
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Relocation

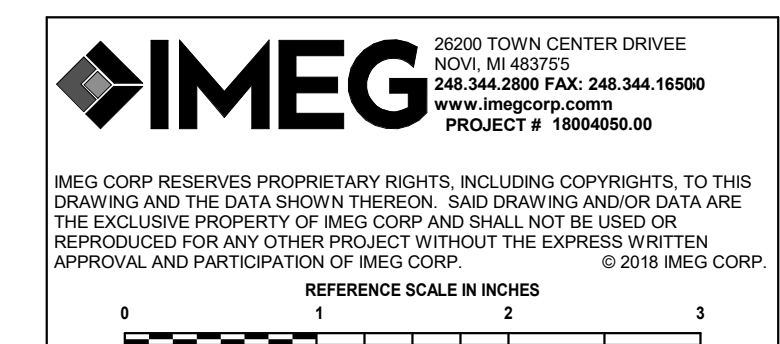
sheet title:

ENLARGED PLUMBING PLANS

project number: sheet number:
 WSU : 00

P-300

FOR BIDS



PLUMBING FIXTURE ROUGH-IN SCHEDULE					
NOTES: 1) SANITARY RISER UP IN WALL TO FIXTURE SHALL BE A MINIMUM OF 2". 2) 1/2" CW AND HW APPLIES ONLY TO THE FINAL VERTICAL RISE-DROP TO EACH FIXTURE, BRANCH PIPING TO VERTICAL RISE-DROP SHALL BE A MINIMUM OF 3/4" UNLESS NOTED OTHERWISE. 3) SIZES SHOWN ARE MINIMUMS. SIZES SHOWN ON THE DRAWING THAT ARE LARGER THAN THE SIZES LISTED IN THE SCHEDULE SHALL DICTATE THE ROUGH-IN SIZE.					
FIXTURE DESCRIPTION	DOMESTIC CW (NOTE 3)	DOMESTIC HW (NOTE 3)	SANITARY (NOTE 3)	VENT (NOTE 3)	REMARKS
LAVATORY	1/2"	1/2"	1 1/4"	1 1/4"	NOTE 1 & 2
URINAL	1"	-	2"	1 1/2"	-
WATER CLOSET	1"	-	4"	2"	-

PLUMBING MATERIAL LIST		
THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRATCOR. THE CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS,WHETHER SPECIFIED OR NOT. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRATCTOR IS RESPONSIBLE FOR COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. CONTRATCOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES. ALL FIXTURES SHALL CONFORM TO FEDERAL ACT S.3874.		
TAG	DESCRIPTION	ACCEPTABLE MANUFACTURERS
<u>L-1</u>	LAVATORY - ADA WALL MOUNTED, WHITE VITREOUS CHINA, 20"x18", 4" HIGH CONTOURED BACKSPLASH, SINGLE FAUCET HOLE, DRILLED FOR CONCEALED ARM CARRIER.	LAVATORY - KOHLER (K-2007)
	INSULATION KIT - PRE-MANUFACTURED FOR P-TRAP, STOP VALVES AND SUPPLY LINES.	INSULATION KIT - TRUEBRO
	LAVATORY TRIM - SENSOR ACTIVATED MIXING FAUCET, HARD-WIRED, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH VANDAL RESISTANT AERATOR, SINGLE HOLE DECK PLATE, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE, SOLID BRASS SOLENOID WITH BUILT-IN FILTER, SOLID BRASS THERMOSTATIC MIXING VALVE MEETING ASSE 1070 REQUIREMENTS WITH ADJUSTABLE TEMPERATURE LIMIT STOP AND INTEGRAL CHECK VALVES, WATERPROOF CONNECTORS AND CABLE, UL APPROVED TRANSFORMER.	LAV TRIM -AMERICAN STANDARD (775B.205/PK00.HAC)
	ELECTRICAL REQUIREMENTS - 120 VAC INPUT	
	MOUNT CONTROLS IN WATERPROOF VANDAL-RESISTANT ENCLOSURE BELOW LAVATORY. PROVIDE TRANSFORMER WITH CABLE EXTENSIONS (AS REQUIRED) OR PLUG-IN TRANSFORMER. MOUNT TRANSFORMER ABOVE CEILING OR IN ACCESSIBLE PIPE CHASE. COORDINATE LOCATION WITH ELECTRICAL CONTRACTOR. SELECT TRANSFORMER TO SERVE MAXIMUM NUMBER OF ELECTRONIC VALVES TO REDUCE AMOUNT OF TRANSFORMERS.	
<u>SK-1</u>	MAXIMUM FLOW TO BE 0.5 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AS REQUIRED. MOUNT MIXING VALVE UNDER COUNTER/LAVATORY. MIXING VALVE SHALL NOT BE WYE PATTERN STYLE.	
	PROGRAMMING UNIT - HAND HELD, CAPABLE OF CHANGING SETTINGS, RUNNING DIAGNOSTICS, AND SCAN FAUCETS WITH ISSUES. PROVIDE ONE CONTROLLER FOR EVERY 6 FAUCETS.	
	ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES, DRAIN AND OFFSET TAILPIECE, 1-1/4" 17 GAUGE CAST BRASS P-TRAP, SUPPORT CARRIER.	
<u>WC-1</u>	IN COMPLIANCE WITH LATEST ADA STANDARD. PROVIDE 29" MINIMUM CLEARANCE FROM FLOOR TO BOTTOM OF APRON IN COMPLIANCE WITH LATEST ANSI A117.1 AND ADA STANDARDS. ARMAFLEX WITH TAPE IS NOT ACCEPTABLE IN LIEU OF INSULATION KIT.	
	SINK - SELF-RIMMING SINGLE COMPARTMENT WITH FAUCET DECK, 18 GAUGE TYPE 304 STAINLESS STEEL, 20" (SIDE-TO-SIDE) x 18" (FRONT-TO-BACK) OVERALL SIZE,20" x 18" x [D]" DEEP BOWL. COMPLETELY UNDERCOATED, 3-1/2" DIAMETER DRAIN OUTLET LOCATION CENTERED IN BOWL, PERFORATED TYPE 316 STAINLESS STEEL GRID STRAINER.	SINK - ELKAY (LR/LK18B)
	SINK TRIM - TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, GOOSENECK RIGIDSPOUT, NOMINAL 4" REACH, AERATOR, HANDLES AT 8" CENTERS, 1/4-TURN OPERATION CERAMIC DISC CARTRIDGE.	SINK TRIM - AMERICAN STANDARD (7230.000)
<u>WH-1</u>	ACCESSORIES - 1-1/2" 17 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME-PLATED SOFT COPPER SUPPLY LINES.	
	WATER CLOSET - ADA WALL MOUNTED, FLUSH VALVE TYPE, WHITE VITREOUS CHINA, SIPHON JET, WATER SAVING, ELONGATED BOWL, 1-1/2" TOP SPUD.	WATER CLOSET - AMERICAN STANDARD (2257.101)
	FLUSH VALVE -FLUSH VALVE - EXPOSED, SENSOR OPERATION, HARD-WIRED, 1.6 GALLONS PER FLUSH, 11-1/2" ROUGH-IN, CHROME PLATED, 1" I.P.S. SCREWDRIWER STOP-CHECK VALVE WITH VANDAL RESISTANT CAP, HIGH BACK PRESSURE VACUUM BREAKER, ADJUSTABLE TAILPIECE, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, MECHANICAL OVER-RIDE BUTTON, CHLORAMINE RESISTANT MATERIALS, ADA COMPLIANT, 3 YEAR WARRANTY.	FLUSH VALVE - AMERICAN STANDARD 6065.161
<u>WH-1</u>	SEAT - WHITE, EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED SOLID PLASTIC, SELF-SUSTAINING HINGE, STAINLESS STEEL OR PLATED STEEL POSTS AND NUTS.	SEAT - BEMIS (3155C), CHURCH (3155C), BENEKE (533PC), OLSONITE (95), SAME AS WATER CLOSET MANUFACTURER
	ACCESSORIES - WATER CLOSET SUPPORT CARRIER RATED FOR 500 LBS.	
	MOUNT WATER CLOSET WITH CARRIER BOLTED SECURELY TO FLOOR. TOP OF SEAT SHALL BE AT 16"-17" ABOVE FINISHED FLOOR (VERIFY EXACT MOUNTING HEIGHT WITH MANUFACTURER). FLUSH HANDLE SHALL BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL AND BE AT 12" (MAXIMUM) ABOVE BOWL RIM AND OPERATE WITH NO GREATER THAN 5 LB FORCE IN COMPLIANCE WITH LATEST ADA STANDARDS. VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS.	
<u>WH-1</u>	WATER HEATER - ELECTRIC INSTANTANEOUS POINT-OF-USE (FOR SINGLE LOW FLOW FIXTURE), HIGH STRENGTH REINFORCED PLASTIC BODY, 3/8" COMPRESSION FITTINGS, REPLACEABLE ELEMENT, NEMA 4 PAINTED STEEL WATERPROOF ENCLOSURE, HIGH TEMPERATURE LIMIT SWITCH, FLOW RESTRICTING AERATOR FOR FAUCET OUTLET, 150 PSI WORKING PRESSURE, 1-YEAR WARRANTY ON ELEMENT, 5-YEAR WARRANTY ON HEATER BODY/ELEMENT ASSEMBLY, UL LISTED.	
	25°F RISE AT 0.5 GPM, 1.8 KW ELEMENT	EEMAX (SP), BRADFORD WHITE (ES), CHRONOMITE (SR)
	ELECTRICAL REQUIREMENTS -120V- 1 PHASE, HARD-WIRED	
<u>WH-1</u>	MOUNT WATER HEATER ON WALL BELOW SINK OR LAVATORY. SET OUTPUT WATER TEMPERATURE AT 110°F.	

PUMP SCHEDULE																					
MARK	AREA/SYSTEM SERVED	LOCATION	TYPE	SHAFT SEAL	DESIGN FLOW...	FEET OF LIQUID		LIQUID HANDLED				%EFF	MOTOR DATA (ENERGY EFFICIENT T-FRAME)								REMARKS
MARK	AREA/SYSTEM SERVED	LOCATION	TYPE	SHAFT SEAL	DESIGN FLOW (GPM)	TOTAL DYNAMIC HEAD	NPSHR	TYPE	DYNAMIC VISCOSITY (CP)	SPECIFIC GRAVITY	TEMP (OF)	%EFF	AMPS	HP (NOTE 1)	RPM	VOLT	PH	MOTOR ENCLOSURE	MOTOR CONTROL	REMARKS	
SP-001	BENCH SINK	FLOOR	PACKAGED SUMP		32	20		WATER	0.980	1.000	120		7.3	1/2		115	1		FLOAT	SEE NOTE 1 & 2	
NOTES:																					
1 ABOVE GRADE SUBMERSIBLE, SIMPLEX, NON-CLOG CENTRIFUGAL PUMPS. FURNISH AS PACKAGED PREWIRED, PREPIPED WITH VENTED 14 DIAMETER FIBERGLASS BASIN WITH BOLTED SEALING COVER, CONTROL PANEL, AND ALL CONTROL/ALARM DEVICES FOR A TURN-KEY SYSTEM. REFER TO SPECIFICATION AND DRAWING DETAIL.																					
2 BASED ON LIBERTY PUMPS MODEL 405 WITH 14" DIA. X14" H , 5.5 GALLON POLYOLEFIN BASIN.																					



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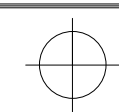


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coordination checked	PETPAP
checked	PETPAP approved PETPAP
location	Prentis Building
-	-

project:
Prentis Building - Rackham
Relocation

sheet title:

PLUMBING SCHEDULES

project number: sheet number:
WSU : 00

P-500

FOR BIDS

NAME

10' = 0"

LEVEL NAME

HEIGHT ABOVE PROJECT 0' - 0"

INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

VIEW NAME

1

1/8" = 1'-0"

PLAN OR DETAIL SCALE

LINE TYPE KEY:

NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)

NEW WORK BY OTHERS AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE)

EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK SHORT DASHED LINE)

PIPING ABBREVIATION KEY	
ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
C	COMMON
CO	CLEANOUT
DPG (0-2")	DIFFERENTIAL PRESSURE GAUGE (RANGE)
DPS	DIFFERENTIAL PRESSURE SWITCH
EA	EXHAUST/RELIEF AIR
EP	ELECTRICAL TO PNEUMATIC VALVE
MA	MIXED AIR
MV	MIXING VALVE
NC	NEW CONNECTION
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
OA	OUTSIDE AIR
PS	PRESSURE SWITCH
TYP	TYPICAL
RA	RETURN AIR
SA	SUPPLY AIR
UNO	UNLESS NOTED OTHERWISE

CONTRACTOR ABBREVIATION KEY	
ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
A.V.C.	AUDIOVISUAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

MECHANICAL RENOVATION NOTES:

- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
 - NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
 - FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
 - EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF HIS/HER WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR CONSTRUCTION MANAGER. ARCHITECT/ENGINEER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO HIS/HER AREA OF WORK.
 - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH HIS WORK.
 - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
 - WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
 - PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
 - OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
 - MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
 - DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

MECHANICAL PHASING NOTES:

- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER TO GENERAL CONTRACTOR'S INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES. AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
 - REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
 - PROVIDE TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ZONE VALVES, ZONE ALARMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.
 - INSTALL TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT
 - PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

PIPING GENERAL NOTES:

- THE SIZE OF BRANCH PIPING TO TERMINAL HEATING DEVICES AND COILS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
- PIPE DRAIN LINES FROM EQUIPMENT TO NEAREST FLOOR DRAIN.
- INSTALL ALL REFERRANT LIQUID AND SUCTION PIPING SIZED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS.

MECHANICAL GENERAL NOTES:

- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
 - DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
 - COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
 - REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
 - ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
 - EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
 - REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIOVISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
 - EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
 - IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
 - SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE.PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
 - CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
 - WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
 - EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
 - DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
 - MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS.
 - PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
 - DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

PIPING SHEET INDEX

MP-000	PIPING COVERSHEET
MPD-101-B	BASEMENT FLOOR DEMOLITION - PIPING
MP-101-B	BASEMENT FLOOR - PIPING
MP-103	THIRD FLOOR PLAN - PIPING

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ARCHITECTURE

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NM Project Number - 18113.0

consultants:

IMEG

26200 TOWN CENTER DRIVE

NOVI, MI 48375

248.344.2800 FAX: 248.344.1650

www.imegcorp.com

IMEG Project Number - 18004050.00

key plan: FLOOR LEVEL

NO SCALE AREA OF WORK



issue: date:

For Bids	Dec. 11, 2018
100% CD's	Dec. 04, 2018
Owner Review 90% CD's	Nov. 27, 2018
Owner Review 60% CD's	Nov. 13, 2018



designed	PETPAP
drawn	KIRSAI
coordination checked	PETPAP
checked	PETPAP
approved	PETPAP
location	Prentis Building

project:
Prentis Building - Rackham Relocation

sheet title:

PIPING COVERSHEET

project number: sheet number:
WSU : 00

MP-000

FOR BIDS

IMEG

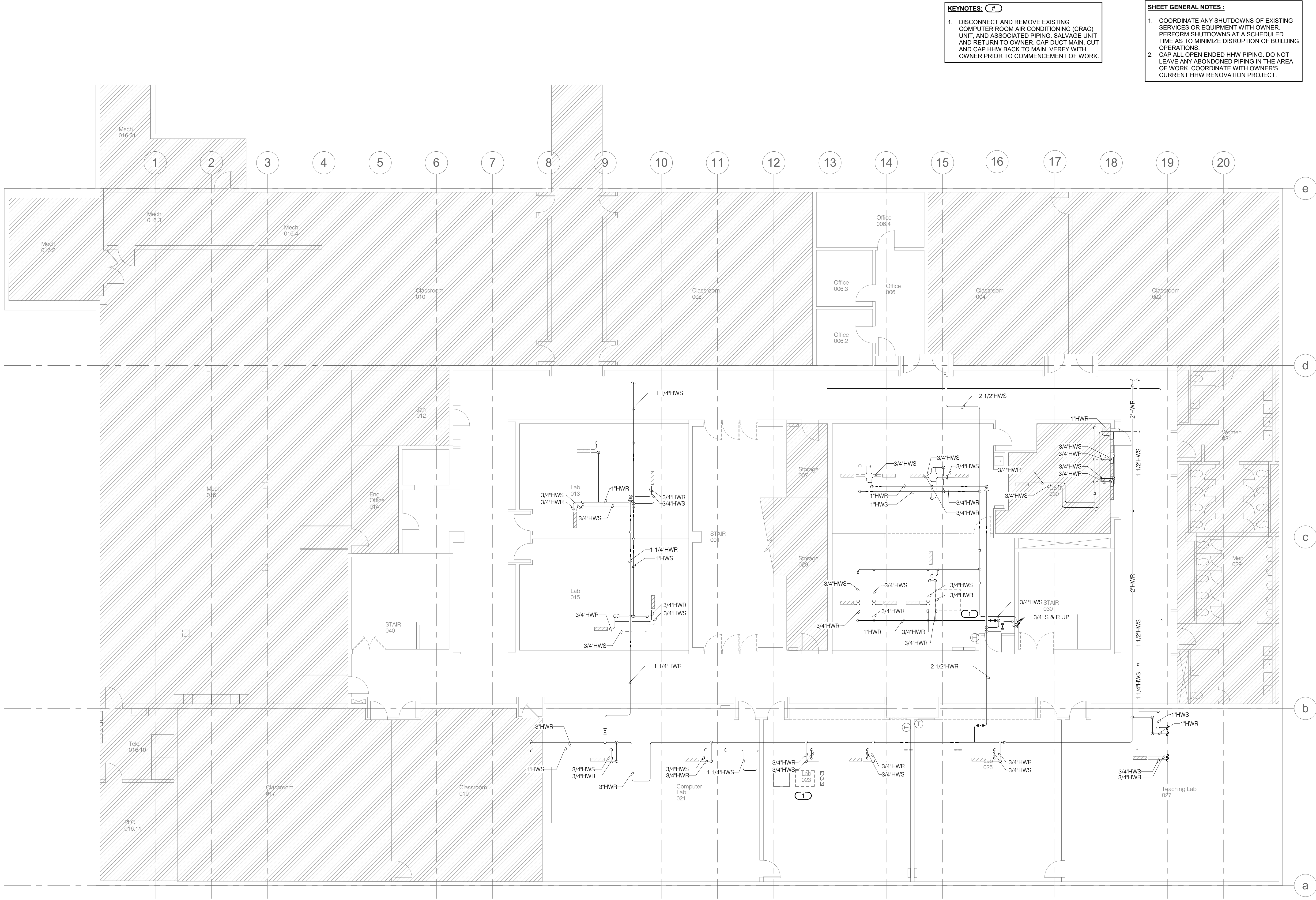
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PROJECT # 18004050.00

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REFERENCE SCALE IN INCHES

0 1 2 3



KEYNOTES: C

1. DISCONNECT AND REMOVE EXISTING COMPUTER ROOM AIR CONDITIONING (CRAC) UNIT, AND ASSOCIATED PIPING. SALVAGE UNIT AND RETURN TO OWNER. CAP DUCT MAIN, CUT AND CAP HHW BACK TO MAIN. VERIFY WITH OWNER PRIOR TO COMMENCEMENT OF WORK.

SHEET GENERAL NOTES:

1. COORDINATE ANY SHUTDOWNS OF EXISTING SERVICES OR EQUIPMENT WITH OWNER. PERFORM SHUTDOWNS AT A SCHEDULED TIME AS TO MINIMIZE DISRUPTION OF BUILDING OPERATIONS.

2. CAP ALL OPEN ENDED HHW PIPING. DO NOT LEAVE ANY ABANDONED PIPING IN THE AREA OF WORK. COORDINATE WITH OWNER'S CURRENT HHW RENOVATION PROJECT.

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NM Project Number - 18113.0

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IMEG Project Number - 18004050.00

key plan: FLOOR LEVEL
NO SCALE AREA OF WORK

issue: _____ date: _____

For Bids	Dec. 11, 2018
100% CD's	Dec. 04, 2018
Owner Review 90% CD's	Nov. 27, 2018
Owner Review 60% CD's	Nov. 13, 2018



designed	PETPAP
drawn	KIRSAI
coordination checked	PETPAP
checked	PETPAP approved PETPAP
location	Prentis Building

project:
Prentis Building - Rackham Relocation

sheet title:

BASEMENT FLOOR DEMOLITION - PIPING

project number: _____ sheet number: _____
WSU - 00
MPD-101-B

1

BASEMENT FLOOR DEMOLITION - PIPING
1/8" = 1'-0"



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REFERENCE SCALE IN INCHES
0 1 2 3

FOR BIDS



1. NEW 3/4" HHWS/R PIPE TO NEW TERMINAL AIR BOX FROM EXISTING HHWS & R MAINS. PROVIDE ISOLATION VALVES ON SUPPLY AND RETURN PIPING, TWO-WAY CONTROL VALVE & BALANCE VALVE ON RETURN PIPING. SEE DETAIL.

1. COORDINATE ANY SHUTDOWNS OF EXISTING SERVICES OR EQUIPMENT WITH OWNER. PERFORM SHUTDOWNS AT A SCHEDULED TIME AS TO MINIMIZE DISRUPTION OF BUILDING OPERATIONS.
2. COORDINATE HHW INSTALLATION & ROUTING FOR THIS PROJECT WITH OWNER'S HHW PIPING REPLACEMENT PROJECT CURRENTLY UNDER CONSTRUCTION.

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MURANO**
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consultants:



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IMEG Project Number - **18004050.00**

NO SCALE AREA OF WORK



issue: _____ date: _____

For Bids	Dec. 11, 2018
100% CD's	Dec. 04, 2018
Owner Review 90% CD's	Nov. 27, 2018
Owner Review 60% CD's	Nov. 13, 2018



designed	PETPA
drawn	KIRSA
coordination checked	PETPA
checked	PETPAP approved
location	Prentis Building

project:
Prentis Building - Rackham
Relocation

sheet title:

BASEMENT FLOOR - PIPING

project number: sheet number
WSU : 00

MP-101-B

FOR BIDS



BASEMENT FLOOR - PIPING

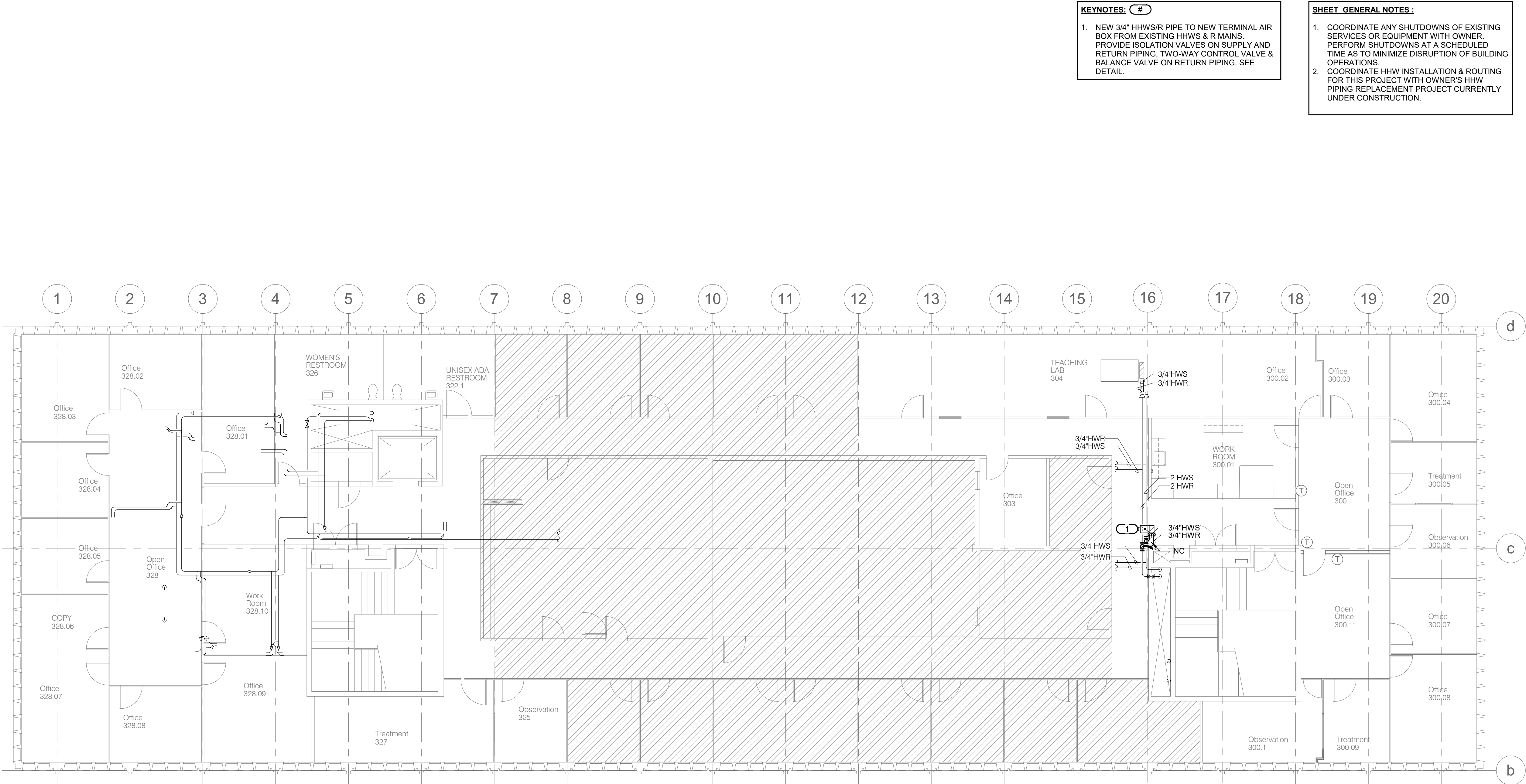
$$1/8" = 1'-0"$$


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PROJECT # 18004050.00

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REFERENCE SCALE IN INCHES





 **1** **THIRD FLOOR PLAN - PIPING**
1/8" = 1'-0"

KEYNOTES: C #

1. NEW 3/4" HHWS/R PIPE TO NEW TERMINAL AIR BOX FROM EXISTING HHWS & R MAINS. PROVIDE ISOLATION VALVES ON SUPPLY AND RETURN PIPING. TWO-WAY CONTROL VALVE & BALANCE VALVE ON RETURN PIPING. SEE DETAIL.

SHEET GENERAL NOTES :

1. COORDINATE ANY SHUTDOWNS OF EXISTING SERVICES OR EQUIPMENT WITH OWNER. PERFORM SHUTDOWNS AT A SCHEDULED TIME AS TO MINIMIZE DISRUPTION OF BUILDING OPERATIONS.

2. COORDINATE HHW INSTALLATION & ROUTING FOR THIS PROJECT WITH OWNER'S HHW PIPING REPLACEMENT PROJECT CURRENTLY UNDER CONSTRUCTION.

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NM Project Number - 18113.0

consultants:

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IMEG Project Number - 18004050.00

key plan: FLOOR LEVEL
NO SCALE AREA OF WORK

issue: date:

For Bids	Dec. 11, 2018
100% CD's	Dec. 04, 2018
Owner Review 90% CD's	Nov. 27, 2018
Owner Review 60% CD's	Nov. 13, 2018



designed	PETPAP
drawn	KIRSAI
coordination checked	PETPAP
checked	PETPAP approved PETPAP
location	Prentis Building

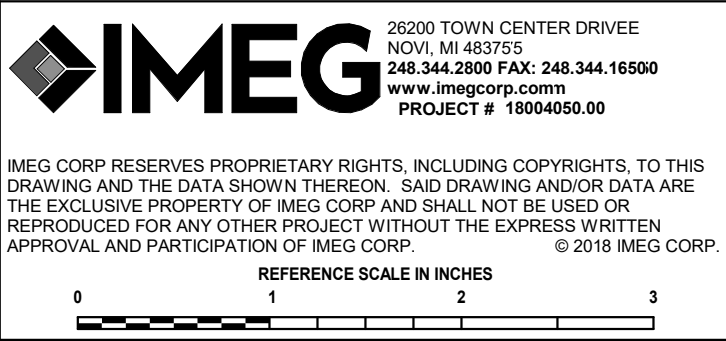
project:
Prentis Building - Rackham Relocation

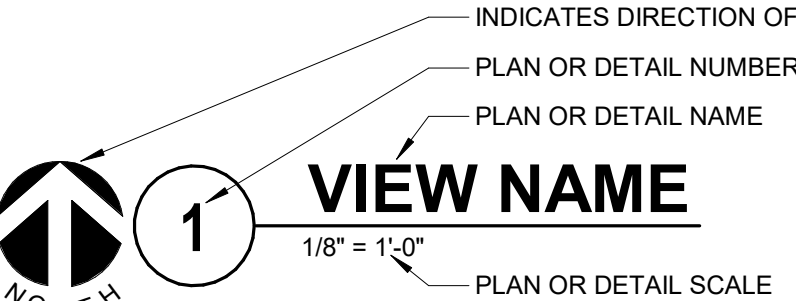
sheet title:

THIRD FLOOR PLAN - PIPING

project number: sheet number:
WSU : 00

MP-103



VIEW KEY		
 NAME	 LEVEL NAME	 INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL
 10' - 0"	 HEIGHT ABOVE PROJECT 0' - 0"	
		
LINE TYPE KEY:  NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)  NEW WORK BY OTHERS AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE)  EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK SHORT DASHED LINE)		

CONTRACTOR ABBREVIATION KEY	
ABBR:	DESCRIPTION:
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

FIRE PROTECTION SHEET INDEX	
F-000	FIRE PROTECTION COVERSHEET
F-101-B	BASEMENT FLOOR - FIRE PROTECTION

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MECHANICAL RENOVATION NOTES:

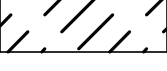
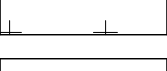
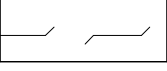
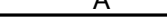
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 - WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
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 - DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

FIRE PROTECTION GENERAL NOTES:

- THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
- CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER IS THE BASIS OF DESIGN.
- FIRE PROTECTION PIPE ROUTING IS SHOWN FOR GENERAL LAYOUT. DETERMINE EXACT NUMBER OF SPRINKLERS, PIPE SIZING, AND PIPE ROUTING.
- CENTER SPRINKLERS IN CEILING TILES IN BOTH DIRECTIONS IN ALL AREAS. IN AREAS WITH 2'X4' CEILING TILES CENTERING USING A 2'X2' CEILING PATTERN IS ACCEPTABLE.
- NEW SPRINKLERS SHALL BE QUICK RESPONSE TYPE, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL NOT MIX STANDARD RESPONSE SPRINKLERS WITH QUICK RESPONSE SPRINKLERS IN UNPARTITIONED SPACES.
- PROVIDE COVERAGE ABOVE AND BELOW ALL DUCTWORK GREATER THAN 48" WIDE.
- PROVIDE COVERAGE ABOVE AND BELOW FLOATING CEILINGS. REFER TO ARCHITECTURAL PLANS.

MECHANICAL GENERAL NOTES:

- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
 - DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
 - COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
 - REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
 - ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
 - EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
 - REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
 - EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
 - IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
 - SEAL ALL FLOOR, WALL AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
 - CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
 - WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
 - EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
 - DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
 - MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS.
 - DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

FIRE PROTECTION SYMBOL LIST	
NOT ALL SYMBOLS MAY APPLY.	
SYMBOL:	DESCRIPTION:
	COMPRESSED AIR - FIRE PROTECTION
	DRAIN
	FIRE PROTECTION
	FIRE PROTECTION - DRY SYSTEM
	SERVICE WATER - POTABLE
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
	NEW CONNECTION
	UNION/FLANGE
	DIRECTION OF FLOW IN PIPE
	AREA BOUNDARY
	LIGHT HAZARD
	ORDINARY GROUP 1
	ORDINARY GROUP 2
	DEMOLITION
	EXTRA GROUP 1
	EXTRA GROUP 2
	SPRINKLER - WALL MOUNTED
	SPRINKLER
	SPRINKLER - CONCEALED
	SPRINKLER
	SPRINKLER
	SPRINKLER
	SPRINKLER
	SPRINKLER

FIRE PROTECTION ABBREVIATION KEY	
ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
I.E.	INVERT ELEVATION
NC	NEW CONNECTION
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

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consultants:



key plan: FLOOR LEVEL
NO SCALE AREA OF WORK

issue: date:

For Bids Dec. 11, 2018
100% CD's Dec. 04, 2018
Owner Review 90% CD's Nov. 27, 2018
Owner Review 60% CD's Nov. 13, 2018



designed **PETPAP**
drawn **KIRSAI**
coordination checked **PETPAP**
checked **PETPAP** approved **PETPAP**
location Prentis Building

project:
Prentis Building - Rackham
Relocation

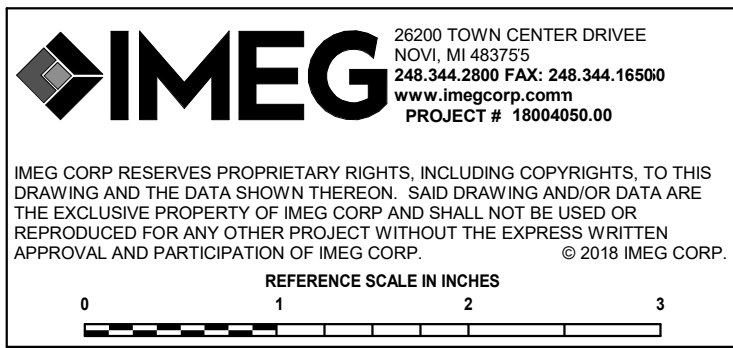
sheet title:

**FIRE PROTECTION
COVERSHEET**

project number: sheet number:
WSU : 00

F-000

FOR BIDS





1

BASEMENT FLOOR - FIRE PROTECTION

1/8" = 1'-0"

SHEET GENERAL NOTES:

1. COORDINATE ALL DEMOLITION AND NEW WORK WITH ARCHITECTURAL DEMOLITION AND PHASING PLANS.
2. REMOVE ALL PIPING, EQUIPMENT, HANGERS, SUPPORTS, CONTROLS AND ACCESSORIES WITHIN SCOPE BOUNDARY AS SHOWN ON THIS PLAN
3. EXISTING PIPING IS SHOWN FOR REFERENCE. CONTRACTOR TO FIELD VERIFY PIPING AND DEMOLITION WORK PRIOR TO CONSTRUCTION START.
4. RELOCATE EXISTING UTILITIES AS REQUIRED TO COORDINATE WITH OTHER TRADES.
5. CONTRACTOR SHALL SHUTDOWN AND DRAIN SYSTEM AS REQUIRED TO MAKE MODIFICATIONS. SYSTEM SHUTDOWN SHALL BE COORDINATED WITH OWNER PRIOR TO PROCEEDING.
6. CONTRACTOR SHALL TURN SPRINKLERS UPRIGHT DURING CONSTRUCTION TO MAINTAIN ADEQUATE COVERAGE PER NFPA13.
7. CONTRACTOR SHALL EXTEND AND REWORK EXISTING FIRE PROTECTION PIPING AS REQUIRED TO MAINTAIN COVERAGE PER NFPA13.
8. PROVIDE TEMPORARY CONNECTIONS TO KEEP SYSTEM SERVING AREAS OUT OF SCOPE ACTIVE DURING CONSTRUCTION.
9. FIRE PROTECTION CONTRACTOR RESPONSIBLE FOR COMPLETE SYSTEM.
10. REFER TO ARCHITECTURAL LIFE SAFETY PLANS FOR LOCATIONS OF ALL FIRE BARRIERS. REFER TO 2/FP00 FOR FIRE RATED BARRIER PENETRATION DETAIL. REFER TO 1/FP000 FOR TYPICAL ARMOVER SUPPORT DETAIL.

KEYNOTES: C#

1. CONNECT TO SPRINKLER HEAD IN SOUND BOOTH. COORDINATE WITH OWNER REGARDING THE WORK. CONTRACTOR SHALL INCLUDE THIS WORK IN THE CALCULATION.

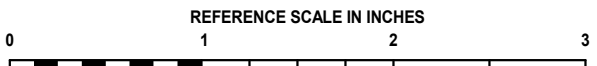


BOUNDARY INDICATES AREA OF WORK. REMOVE EXISTING SPRINKLERS AND ASSOCIATED BRANCH AND MAIN PIPING WITH AREA OF WORK. EXISTING FIRE PROTECTION PIPING MAY BE RE-USED IF SIZED PROPERLY PER CONTRACTORS' HYDRAULIC CALCULATIONS AND LOCATED PROPERLY FOR COORDINATION WITH OTHER TRADES. RE-USED FIRE PROTECTION PIPING MUST BE INSPECTED AND CONTRACTOR MUST DOCUMENT ACCEPTANCE PRIOR TO RE-USING. PROVIDE NEW SPRINKLERS AND COVERAGE PER NFPA 13. EXISTING SPRINKLER HEADS IN THE CORRECT LOCATIONS MAY BE LEFT IN PLACE, BUT ONLY IF THEY ARE QUICK RESPONSE. NEW SPRINKLERS WILL MATCH EXISTING.



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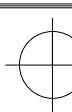


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key plan: FLOOR LEVEL

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designed	PETPAP
drawn	KIRSAI
coordination checked	PETPAP
checked	PETPAP approved PETPAP
location	Prentis Building

project:
Prentis Building - Rackham Relocation

sheet title:

BASEMENT FLOOR - FIRE PROTECTION

project number: sheet number:
WSU : 00

F-101-B

FOR BIDS

LUMINAIRE SCHEDULE															
(DESC) DOOR: FS - FLAT STEEL				(L/L) LENS/LOUVER: A - .125" ACRYLIC O - OTHER (SEE DESCRIPTION)											
FINISH: CFSA - COLOR-FINISH SELECTION BY ARCHITECT															
(TYPE) LIGHT SOURCE TECHNOLOGY: LED - LIGHT EMITTING DIODE FL - FLUORESCENT				(MTG) MOUNTING: CL - CEILING SURFACE RE - RECESSED											
				(WATT) PER: FIX - FIXTURE, FT - FOOT, LAMP											
				(TYPE) BALLAST/DRIVER: EB - ELECTRONIC EM - EMERGENCY BATTERY											
CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.															
VERIFY AND COORDINATE ALL CEILING TYPES WITH LUMINAIRE MOUNTING AND TRIM REQUIREMENTS PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER. CONFIRM ALL COLORS AND FINISHES OF ALL LUMINAIRE COMPONENTS WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER. UNLESS INDICATED ON LIGHTING PLANS OR BELOW, REFER TO ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS, SECTIONS AND DETAILS FOR ALL SUSPENDED AND WALL MOUNTED LUMINAIRE MOUNTING HEIGHTS.															
REFER TO SPECIFICATION SECTIONS LIGHTING 26 51 00 AND EMERGENCY LIGHTING EQUIPMENT 26 52 00 FOR ADDITIONAL INFORMATION AND REQUIREMENTS. INTERIOR CORRELATED COLOR TEMPERATURE 4100K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.															
ITEM	DESCRIPTION	L/L	MTG	DIMENSIONS				WATT		LIGHT SOURCE TECHNOLOGY		BALLAST/DRIVER		APPROVED MANUFACTURER	
				L	W	H	DIA.	MAX ANSI	PER	TYPE	QTY	MODEL/ABSO LUTE LUMENS (MIN)	VOLTS		TYPE
EM1	EMERGENCY UNIT, TWO ADJUSTABLE LED HEADS, WHITE THERMOPLASTIC HOUSING, SELF TEST & DIAGNOSTICS OF INVERTER AND LAMPS	O	CL	11"	3 1/2"	7 1/2"		3 W	FIX	LED	2	6 VOLT (2 INCLUDED)	120 V	EM	DUAL-LITE EVHC LITHONIA ELML4
F1	RECESSED STATIC GRID TROFFER WITH FS DOOR.	K	RE	4'-0"	1'-0"	4 1/2"		64 W	FIX	FL	2	32WATT F32T8	120 V	EB	LITHONIA SP8 COLUMBIA 4PS METALUX GC

LIGHTING SEQUENCE OF OPERATION	
PLAN ID	LIGHTING SWITCHED
(LS1)	Sequence: Switched lights are occupancy controlled in this space. ON: The lights are turn on by occupancy sensor. OFF: After the space has been vacant for 20 minutes, the lights will automatically turn off.

VIEW KEY	
	NAME LEVEL NAME HEIGHT ABOVE PROJECT 0' - 0"
	INDICATES DIRECTION OF TRUE NORTH PLAN OR DETAIL NUMBER PLAN OR DETAIL NAME VIEW NAME PLAN OR DETAIL SCALE
LINE TYPE KEY:	
	NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)
	NEW WORK BY OTHERS AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE)
	EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK SHORT DASHED LINE)

ELECTRICAL SYMBOL LIST			
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	ECONN	26 27 26	ELECTRICAL CONNECTION
	JB		JUNCTION BOX
	MX-#MS-#FCS-#		MANUAL SWITCH / STARTER / COMBINATION STARTER
	PANEL '###'		PANELBOARD - SURFACE MOUNT
	REC-DUP	26 27 26	DUPLEX RECEPTACLE, 125V
	REC-DUP-GFI	26 27 26	DUPLEX GFI RECEPTACLE, 125V
	REC-QUAD	26 27 26	QUAD RECEPTACLE, 125V
	SW-1P	26 09 33	SWITCH - SINGLE POLE
	SW-3W	26 09 33	SWITCH - THREE WAY
	SW-LV	26 09 33	SWITCH - LOW VOLTAGE
	SW-OC-D	26 09 33	OCCUPANCY SENSOR - DUAL TECHNOLOGY
	F#		TROFFER
	F#		DOWNLIGHT LUMINAIRE
	F#		LINEAR LUMINAIRES
	XM#		EMERGENCY UNIT
	SW		WALL CONTROL STATION
	DB		DOOR BELL
	FA-120	28 31 00	FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED
	FA-130	28 31 00	FIRE ALARM MANUAL PULL STATION
	FA-201	28 31 00	FIRE ALARM VISUAL NOTIFICATION DEVICE - CEILING MOUNTED
	FA-211	28 31 00	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE - WALL MOUNTED
	FA-230	28 31 00	FIRE ALARM AUDIO NOTIFICATION DEVICE - CEILING MOUNTED
	FA-231	28 31 00	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE - CEILING MOUNTED

ELECTRICAL EQUIPMENT TAGS		
TAG:	DESCRIPTION:	RELATED SPECIFICATION
DP-#	DISTRIBUTION PANEL	
FAP-#	FIRE ALARM - CONTROL PANEL	28 31 00
MCC-#	MOTOR CONTROL CENTER	
SB-#	SWITCHBOARD	

ELECTRICAL GENERAL NOTES:

- ### INDICATES ELECTRICAL EQUIPMENT DEFINED IN ELECTRICAL SCHEDULES OR SPECIFICATION; REFER TO DRAWINGS CONTAINING ELECTRICAL SCHEDULES. PERMANENT NAMEPLATE SHALL MATCH FINAL EQUIPMENT NOMENCLATURE, NOT ELECTRICAL EQUIPMENT TAG NAME, REFER TO SPECIFICATIONS.
- (L###) INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET E-000.

LUMINAIRE KEY:

	F1 = FIXTURE TAG
	1 = CIRCUIT NUMBER
	a = SWITCH DESIGNATION

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F1 / 1 / a / SE

DEVICE KEY:

	A = MOUNTING (IF APPLICABLE)
	1 = CIRCUIT NUMBER

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1

ELECTRICAL MOUNTING SUBSCRIPT KEY:

A	MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSLASH
C	MOUNT AT CEILING

ELECTRICAL RENOVATION NOTES:

- THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, AND SYSTEMS.
- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
 - NOT ALL EXISTING EQUIPMENT, LUMINAIRES, AND CONDUIT ARE SHOWN. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS WITH NEW WORK BEFORE STARTING WORK.
 - FIELD VERIFY THE AVAILABLE CLEARANCES FOR CONDUITS BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
 - EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF HIS/HER WORK AND SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO HIS/HER AREA OF WORK.
 - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.
 - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
 - WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.

ELECTRICAL INSTALLATION NOTES:

- CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
- CIRCUITS SERVING EMERGENCY LUMINAIRES WILL BE RUN IN A SEPARATE RACEWAY FROM ALL OTHER CIRCUITS.
- ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO 26 05 03 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
- CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
- CONTRACTOR SHALL VERIFY ALL FURNITURE AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND EQUIPMENT.
- ELECTRICAL EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF OPERATION OF, AND ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILINGS MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- MOUNTING HEIGHTS SHALL BE AS FOLLOWS:
LIGHTING SWITCHES 4'-0"
RECEPTACLES (GENERAL AREAS) 1'-6"
RECEPTACLES (UTILITY AREAS) 4'-0"
TELECOMMUNICATION OUTLETS 1'-6"
WALL PHONE 4'-0"
FIRE ALARM STATIONS 4'-0"
FIRE ALARM SIGNALS 7'-6"
CLOCKS/CLOCK OUTLETS 1'-6" BELOW FIN. CEIL.
SAFETY SWITCHES 5'-0" TO TOP

ELECTRICAL SHEET INDEX

E-000	ELECTRICAL COVERSHEET
ED-101-B	BASEMENT FLOOR DEMOLITION - ELECTRICAL
ED-101	FIRST FLOOR DEMOLITION - ELECTRICAL
ED-101-M	MEZZANINE FLOOR DEMOLITION - ELECTRICAL
ED-103	THIRD FLOOR DEMOLITION - ELECTRICAL
EL-101-B	BASEMENT FLOOR - LIGHTING
EL-101	FIRST FLOOR PLAN - LIGHTING
EL-101-M	MEZZANINE FLOOR PLAN - LIGHTING
EL-103	THIRD FLOOR PLAN - LIGHTING
EP-101-B	BASEMENT FLOOR - POWER
EP-101	FIRST FLOOR PLAN - POWER
EP-101-M	MEZZANINE FLOOR PLAN - POWER
EP-103	THIRD FLOOR PLAN - POWER
EP-300	POWER DETAILS
ES-101-B	BASEMENT FLOOR - SYSTEM
ES-101	FIRST FLOOR PLAN - SYSTEMS
ES-101-M	MEZZANINE FLOOR PLAN - SYSTEMS
ES-103	THIRD FLOOR PLAN - SYSTEMS
ES-300	SYSTEM DETAILS

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REFERENCE SCALE IN INCHES
0 1 2 3

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key plan: FLOOR LEVEL
NO SCALE AREA OF WORK

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designed	JALJAL
drawn	MARABR
coordination checked	JALJAL
checked	JALJAL
location	Prentis Building

project:
Prentis Building - Rackham
Relocation

sheet title:

ELECTRICAL COVERSHEET

project number: sheet number:
WSU : 00

E-000



KEYNOTES: (#)

1. FIXTURE TO BE RELOCATED, REFER TO SHEET EL-101-B.
2. CONFIRM DEMOLITION WORK WITH OWNER.
3. DISCONNECT AND REMOVE WIRE-WAYS, OUTLETS AND JUNCTION BOXES DRAWN IN DOTTED SYMBOLS. REMOVE UNUSED BRANCH CIRCUITS BACK TO SOURCE PANEL AND MARK THEM AS A SPARES.

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NO SCALE AREA OF WORK

issue: date:

For Bids	Dec. 11, 2018
100% CD's	Dec. 04, 2018
Owner Review 90% CD's	Nov. 27, 2018
Owner Review 60% CD's	Nov. 13, 2018



designed	JALJAL
drawn	MARABR
coordination checked	JALJAL
checked	JALJAL approved JEFGLA
location	Prentis Building

project:
Prentis Building - Rackham Relocation

sheet title:

BASEMENT FLOOR DEMOLITION - ELECTRICAL

project number: sheet number:
WSU : 00

ED-101-B

1 BASEMENT FLOOR DEMOLITION - ELECTRICAL
1/8" = 1'-0"

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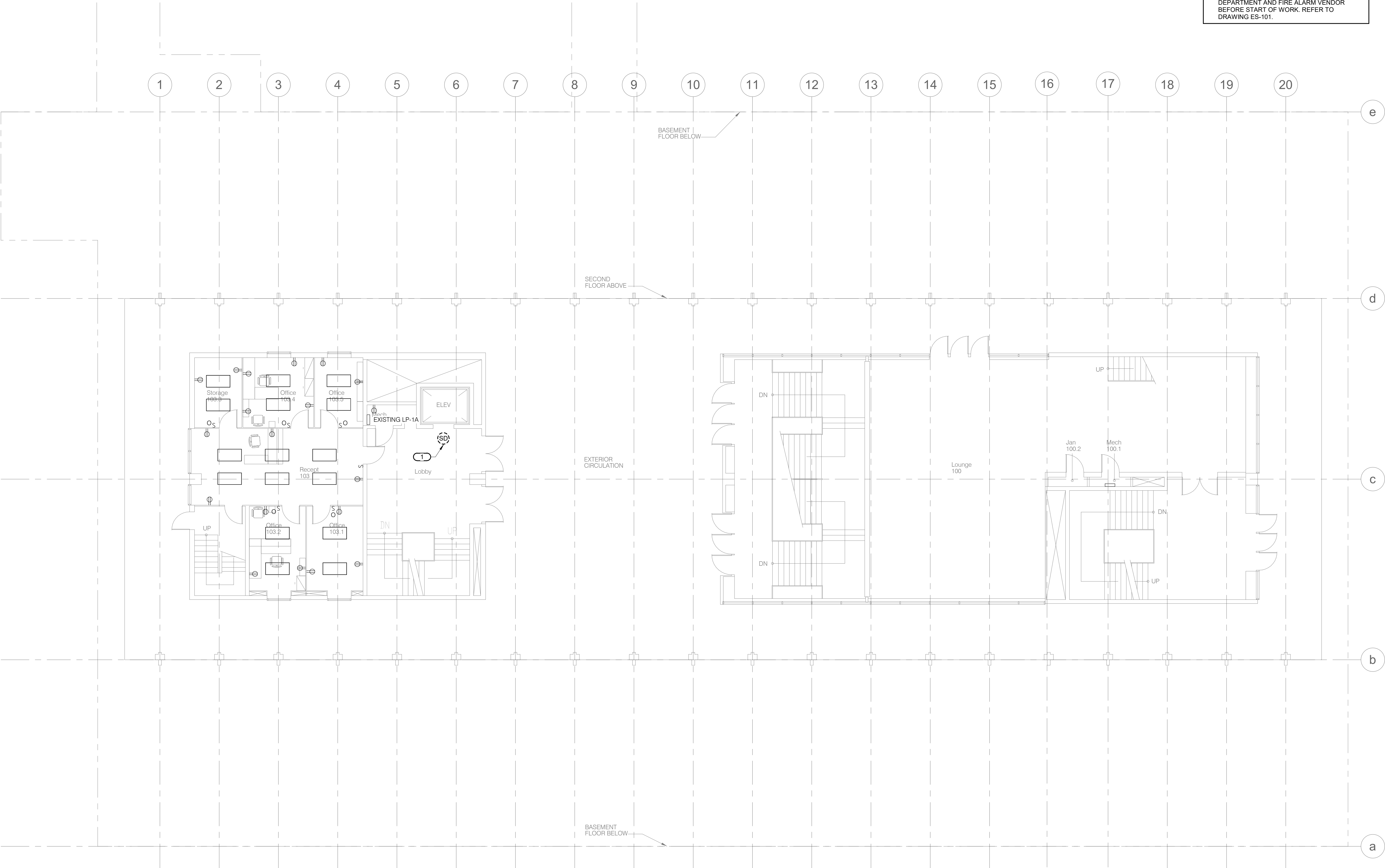
18004050.00 12/10/2018 11:09:36 AM WSU Prentis Bldg Rackham Relocation



1

FIRST FLOOR DEMOLITION - ELECTRICAL

1/8" = 1'-0"



- SHEET NOTES:**
1. UNLESS OTHERWISE NOTED, ALL ELECTRICAL DEVICES SHOWN ON THIS DRAWING ARE EXISTING TO REMAIN.
- KEYNOTES:** C-#
1. DEVICE WILL BE REPLACED, MAINTAIN WIRING, COORDINATE WORK WITH FACILITY FIRE DEPARTMENT AND FIRE ALARM VENDOR BEFORE START OF WORK. REFER TO DRAWING ES-101.

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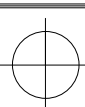
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TELEPHONE: 248.646.5765
FACSIMILE: 248.646.5813
NM Project Number - 18113.0

consultants:

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key plan: FLOOR LEVEL
NO SCALE AREA OF WORK



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project:
Prentis Building - Rackham
Relocation

sheet title:

FIRST FLOOR DEMOLITION -
ELECTRICAL

project number: sheet number:
WSU : 00

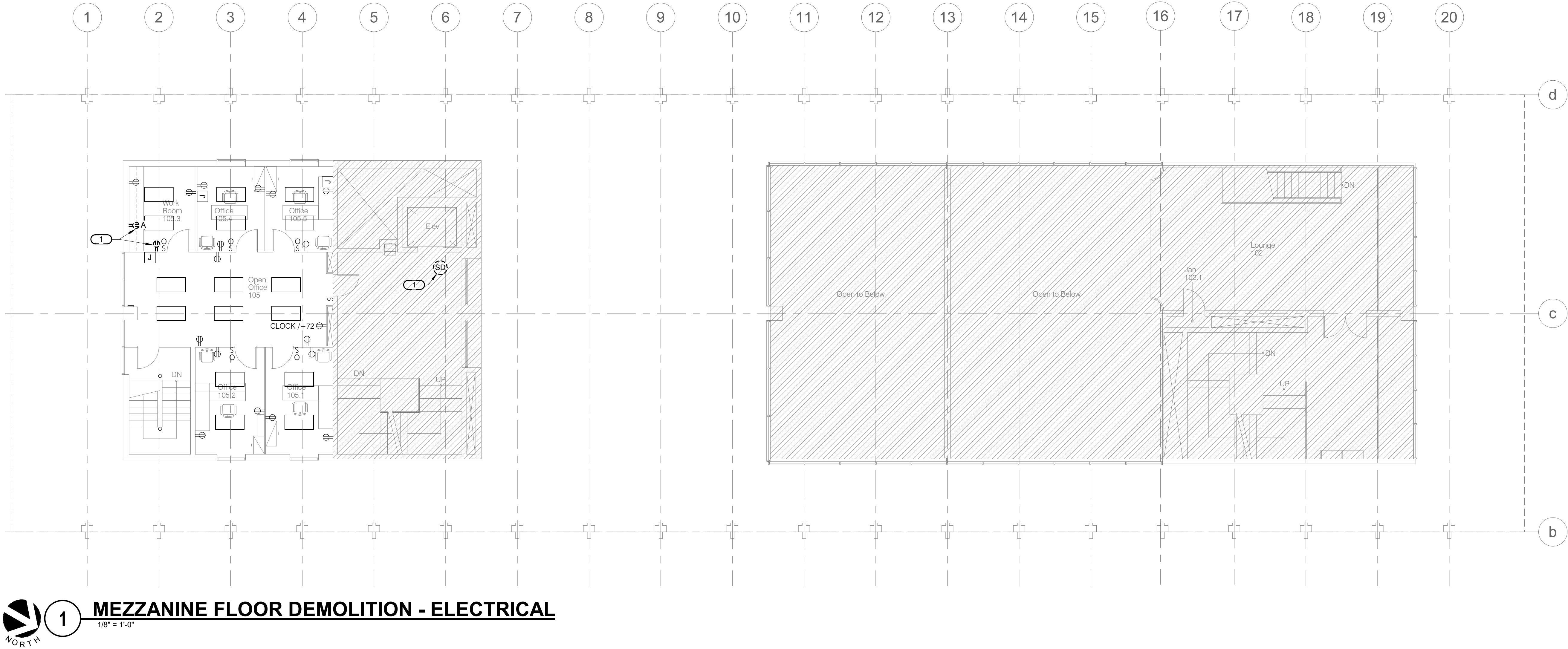
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KEYNOTES: (#
1. DEVICE TO BE REPLACED, MAINTAIN WIRING,
REFER TO DRAWINGS ES-101-M.

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key plan: FLOOR LEVEL
NO SCALE AREA OF WORK



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drawn	MARABR
coordination checked	JALJAL
checked	JALJAL approved JEFGLA
location	Prentis Building

project:
Prentis Building - Rackham
Relocation

sheet title:

MEZZANINE FLOOR
DEMOLITION - ELECTRICAL

project number: sheet number:
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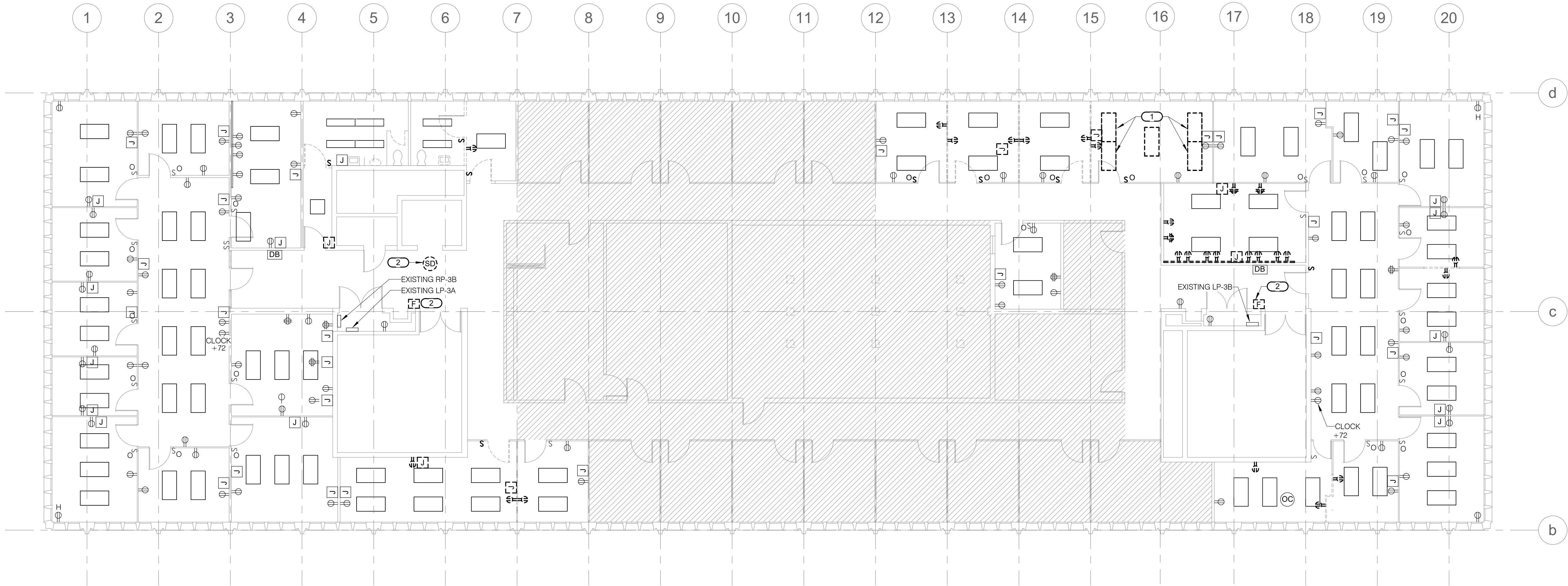


1

THIRD FLOOR DEMOLITION - ELECTRICAL

1/8" = 1'-0"

- KEYNOTES:** (#
1. FIXTURE TO BE RELOCATED, REFER TO SHEET EL-103. REMOVE BRANCH CIRCUIT BACK TO SOURCE.
 2. DEVICE WILL BE REPLACED, MAINTAIN WIRING. COORDINATE WORK WITH FACILITY FIRE DEPARTMENT AND FIRE ALARM VENDOR BEFORE START OF WORK. REFER TO DRAWING ES-103.



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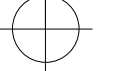


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key plan: FLOOR LEVEL

NO SCALE AREA OF WORK



issue: date:

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Owner Review 90% CD's	Nov. 27, 2018
Owner Review 60% CD's	Nov. 13, 2018



designed	JALJAL
drawn	MARABR
coordination checked	JALJAL
checked	JALJAL
location	Prentis Building

project:
Prentis Building - Rackham
Relocation

sheet title:

THIRD FLOOR DEMOLITION -
ELECTRICAL

project number: sheet number:
WSU : 00

ED-103

FOR BIDS

1 BASEMENT FLOOR - LIGHTING
1/8" = 1'-0"



SHEET NOTES:

1. REPLACE LAMPS AND BATTERIES IN EXISTING EXIT SIGNS AND EMERGENCY BATTERY UNITS.

KEYNOTES: C #

1. RELOCATED 2-LAMP PARABOLIC FIXTURES, EXTEND EXISTING BRANCH CIRCUIT. CLEAN AND RELAMP FIXTURE.
2. MODIFY LIGHTING CONTROLS AS REQUIRED FOR NEW DEVICES.
3. CLEAN AND RELAMP LIGHT FIXTURES IN THIS ROOM.
4. RELOCATED PRE-WIRED EXISTING SOUND BOOTH.
5. EXTEND UNSWITCHED PORTION OF BRANCH CIRCUIT SERVING THIS ROOM TO EMERGENCY FIXTURE.

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key plan: FLOOR LEVEL
NO SCALE AREA OF WORK

issue: date:

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Owner Review 60% CD's	Nov. 13, 2018



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drawn **MARABR**
coordination checked **JALJAL**
checked **JALJAL** approved **JEFGLA**
location Prentis Building

project:
Prentis Building - Rackham Relocation

sheet title:

BASEMENT FLOOR - LIGHTING

project number: sheet number:
WSU : 00 **EL-101-B**

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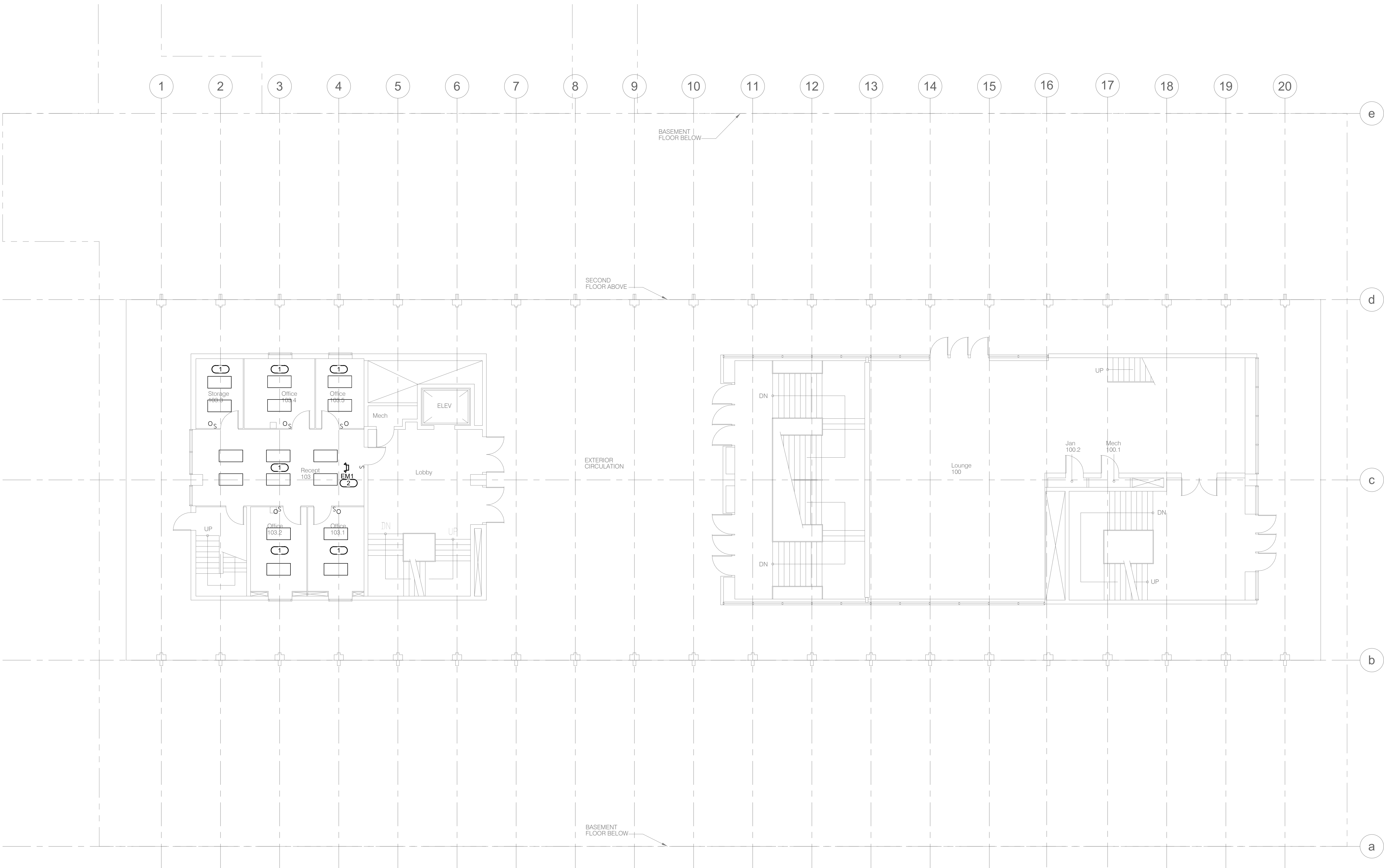
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1 FIRST FLOOR PLAN - LIGHTING

1/8" = 1'-0"



- KEYNOTES:** C#
1. CLEAN AND RELAMP 2-LAMP PARABOLIC FIXTURES IN THIS ROOM.
 2. EXTEND UNSWITCHED PORTION OF BRANCH CIRCUIT SERVING THIS ROOM TO EMERGENCY FIXTURE.

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key plan: FLOOR LEVEL

NO SCALE AREA OF WORK



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Owner Review 60% CD's	Nov. 13, 2018



designed	JALJAL
drawn	MARABR
coordination checked	JALJAL
checked	JALJAL
location	Prentis Building

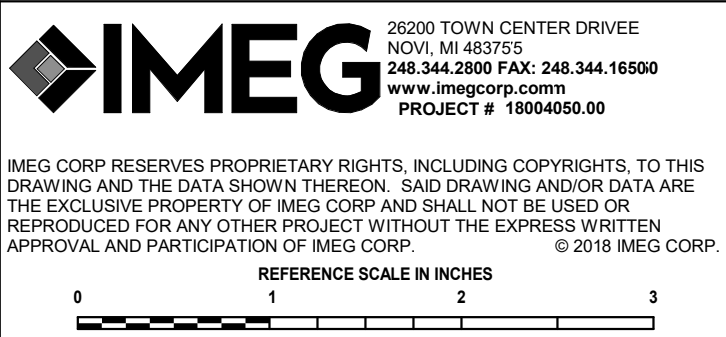
project:
Prentis Building - Rackham
Relocation

sheet title:

FIRST FLOOR PLAN - LIGHTING

project number: sheet number:
WSU : 00

EL-101



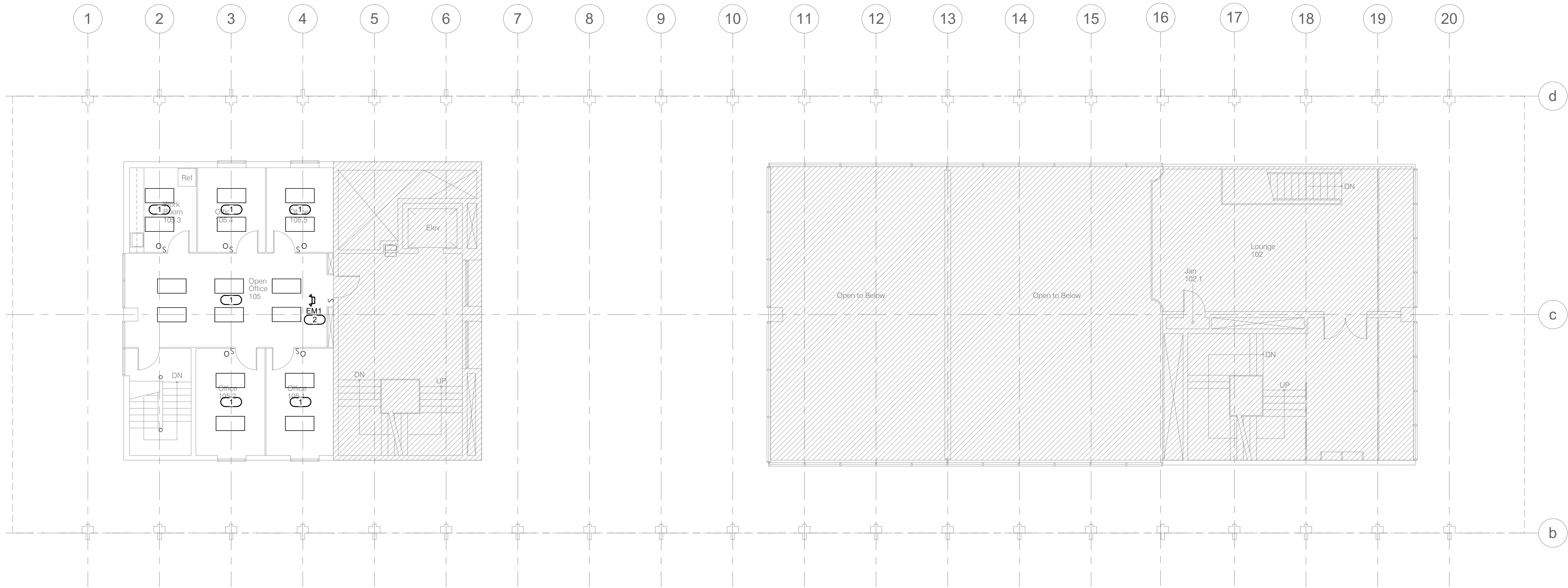
FOR BIDS



1

MEZZANINE FLOOR PLAN - LIGHTING

1/8" = 1'-0"



- KEYNOTES:** C#
1. CLEAN AND RELAMP 2-LAMP PARABOLIC FIXTURES IN THIS ROOM.
 2. EXTEND UNSWITCHED PORTION OF BRANCH CIRCUIT SERVING THIS ROOM TO EMERGENCY FIXTURE.

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key plan: FLOOR LEVEL
NO SCALE AREA OF WORK



issue: date:

For Bids	Dec. 11, 2018
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designed	JALJAL
drawn	MARABR
coordination checked	JALJAL
checked	JALJAL
location	Prentis Building

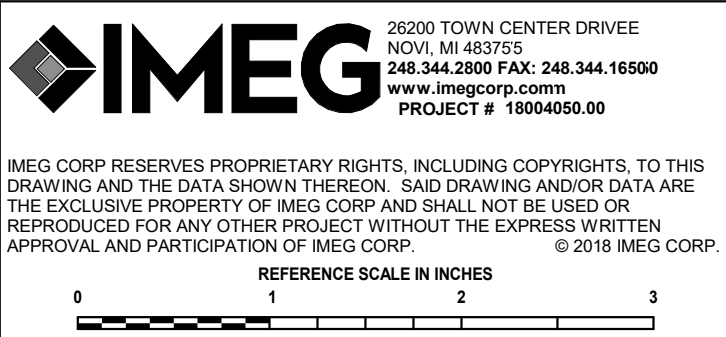
project:
Prentis Building - Rackham
Relocation

sheet title:

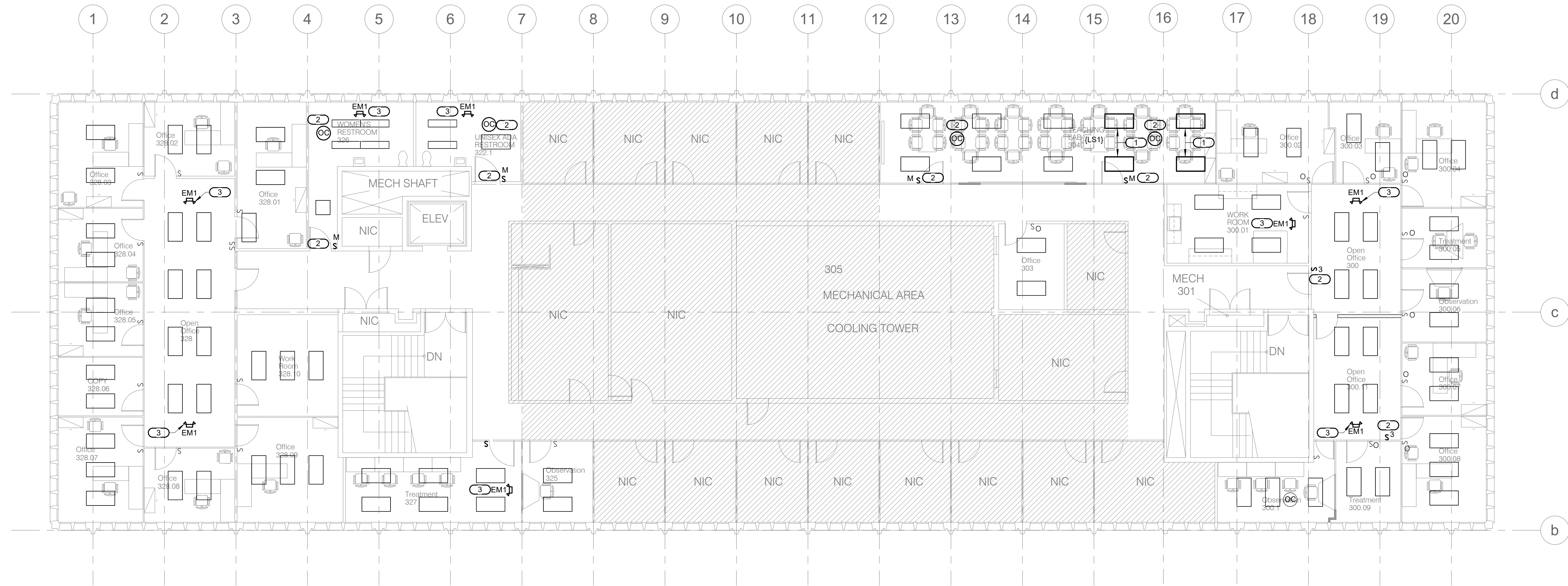
MEZZANINE FLOOR PLAN -
LIGHTING

project number: sheet number:
WSU : 00

EL-101-M



FOR BIDS



1 THIRD FLOOR PLAN - LIGHTING
1/8" = 1'-0"

- SHEET NOTES:**
- CLEAN AND RELAMP 2-LAMP PARABOLIC FIXTURES INDICATED IN AREAS OF WORK. CLEAN AND RELAMP FIXTURES IN RESTROOMS.
- KEYNOTES:** **C#**
- RELOCATED FIXTURE. EXTEND BRANCH CIRCUITS FROM ADJACENT FIXTURES. MODIFY WIRING WITH NEW CONTROLS SO THAT ALL FIXTURES ARE SWITCHED TOGETHER.
 - MODIFY WIRING AS REQUIRED IN THIS ROOM FOR NEW CONTROLS.
 - EXTEND UNSWITCHED PORTION OF BRANCH CIRCUIT SERVING THIS ROOM TO EMERGENCY FIXTURE.

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key plan: FLOOR LEVEL
NO SCALE AREA OF WORK

issue: date:

For Bids Dec. 11, 2018
100% CD's Dec. 04, 2018
Owner Review 90% CD's Nov. 27, 2018
Owner Review 60% CD's Nov. 13, 2018



designed **JALJAL**
drawn **MARABR**
coordination checked **JALJAL**
checked **JALJAL** approved **JEFGLA**
location Prentis Building

project:
Prentis Building - Rackham Relocation

sheet title:

THIRD FLOOR PLAN - LIGHTING

project number: sheet number:
WSU : 00 **EL-103**

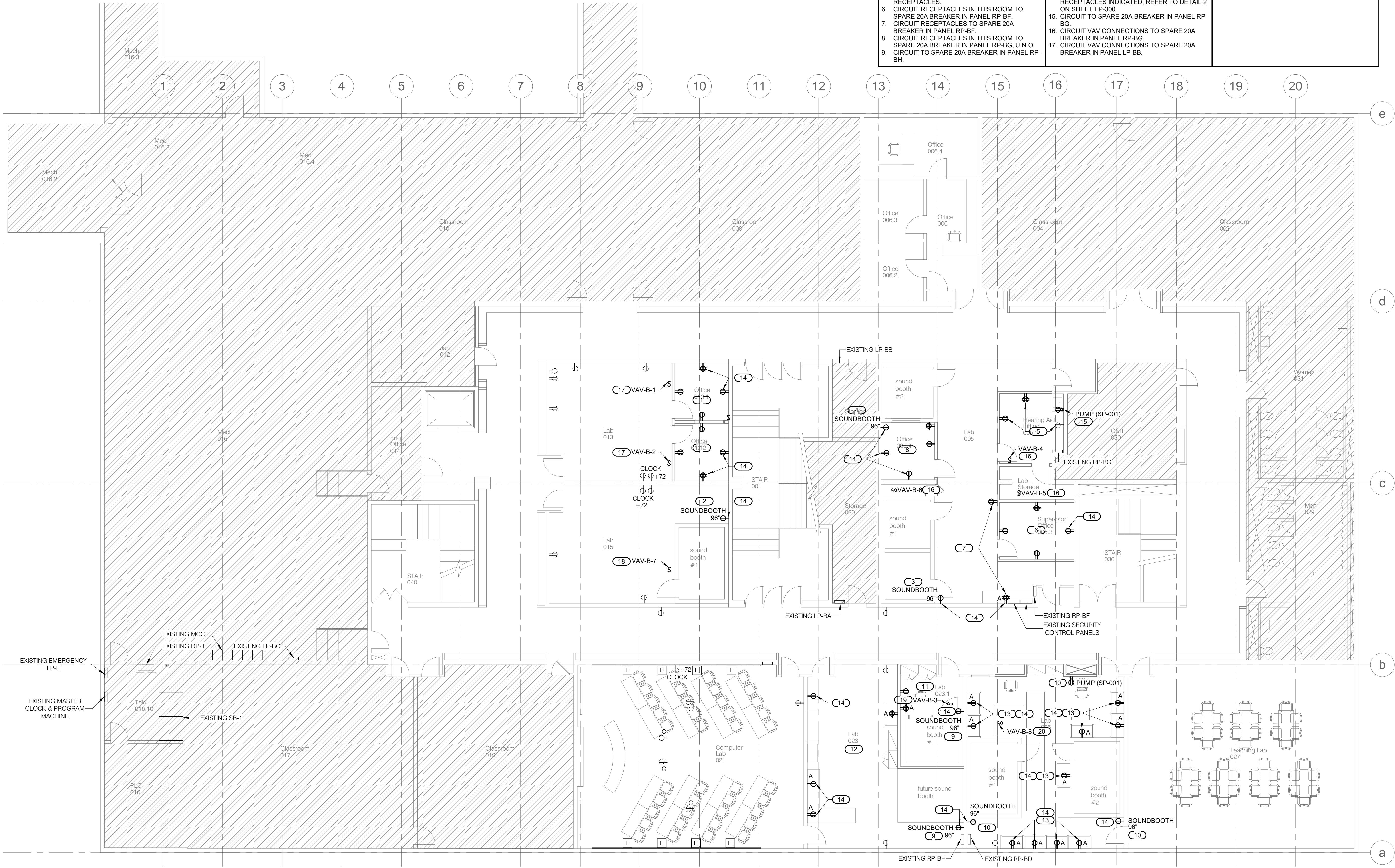
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1 BASEMENT FLOOR - POWER
1/8" = 1'-0"



- KEYNOTES: (#)**
1. CIRCUIT RECEPTACLES IN THIS ROOM TO SPARE 20A BREAKER IN PANEL LP-BB.
 2. CIRCUIT TO SPARE 20A BREAKER IN PANEL LP-BA.
 3. CIRCUIT TO SPARE 20A BREAKER IN PANEL RP-BF.
 4. CIRCUIT TO SPARE 20A BREAKER IN PANEL RP-BG.
 5. EXTEND EXISTING CIRCUIT TO NEW RECEPTACLES.
 6. CIRCUIT RECEPTACLES IN THIS ROOM TO SPARE 20A BREAKER IN PANEL RP-BF.
 7. CIRCUIT RECEPTACLES TO SPARE 20A BREAKER IN PANEL RP-BF.
 8. CIRCUIT RECEPTACLES IN THIS ROOM TO SPARE 20A BREAKER IN PANEL RP-BG, U.N.O.
 9. CIRCUIT TO SPARE 20A BREAKER IN PANEL RP-BH.
 10. CIRCUIT TO SPARE 20A BREAKER IN PANEL RP-BD.
 11. CIRCUIT RECEPTACLES IN THIS ROOM TO SPARE 20A BREAKER IN PANEL RP-BH, U.N.O.
 12. CIRCUIT NEW RECEPTACLES IN THIS ROOM TO SPARE 20A BREAKER IN PANEL RP-BH.
 13. CIRCUIT NEW RECEPTACLES IN THIS ROOM TO SPARE 20A BREAKER IN PANEL RP-BD.
 14. PROVIDE SURFACE RACEWAY FOR RECEPTACLES INDICATED, REFER TO DETAIL 2 ON SHEET EP-300.
 15. CIRCUIT TO SPARE 20A BREAKER IN PANEL RP-BG.
 16. CIRCUIT VAV CONNECTIONS TO SPARE 20A BREAKER IN PANEL RP-BG.
 17. CIRCUIT VAV CONNECTIONS TO SPARE 20A BREAKER IN PANEL LP-BB.
 18. CIRCUIT VAV CONNECTION TO SPARE 20A BREAKER IN PANEL LP-BA.
 19. CIRCUIT VAV CONNECTION TO SPARE 20A BREAKER IN PANEL RP-BH.
 20. CIRCUIT VAV CONNECTION TO SPARE 20A BREAKER IN PANEL RP-BD.

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key plan: FLOOR LEVEL
NO SCALE AREA OF WORK

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coordination checked	JALJAL
checked	JALJAL approved JEFGLA
location	Prentis Building

project:
Prentis Building - Rackham Relocation

sheet title:

BASEMENT FLOOR - POWER

project number: sheet number:
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EP-101-B

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1

FIRST FLOOR PLAN - POWER

1/8" = 1'-0"

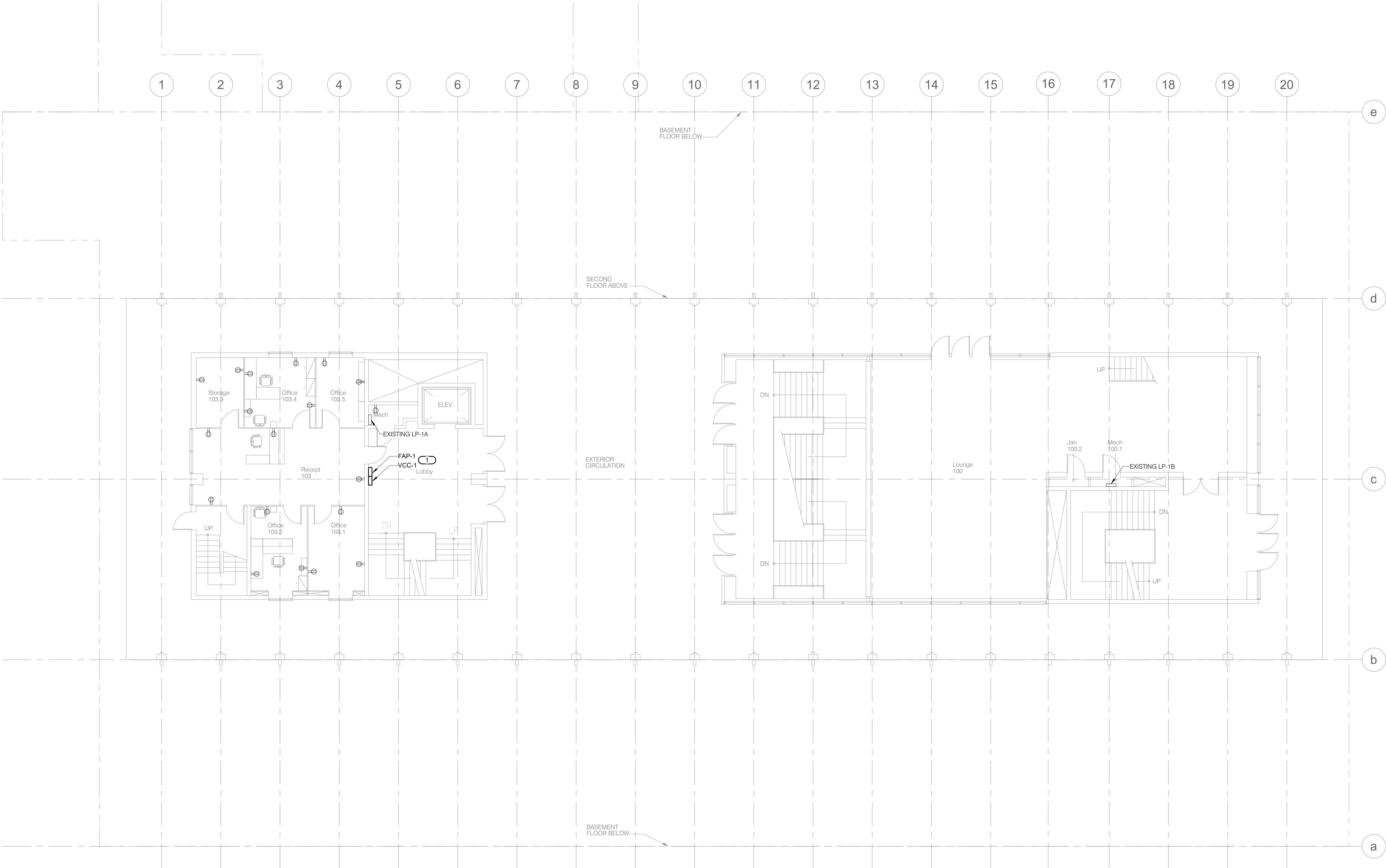


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KEYNOTES: **C** #
1. CIRCUIT FAP-1 AND VCC-1 TO LP-E.



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checked	JALJAL
location	Prentis Building

project:
Prentis Building - Rackham
Relocation

sheet title:

FIRST FLOOR PLAN - POWER

project number: sheet number:
WSU : 00

EP-101

FOR BIDS

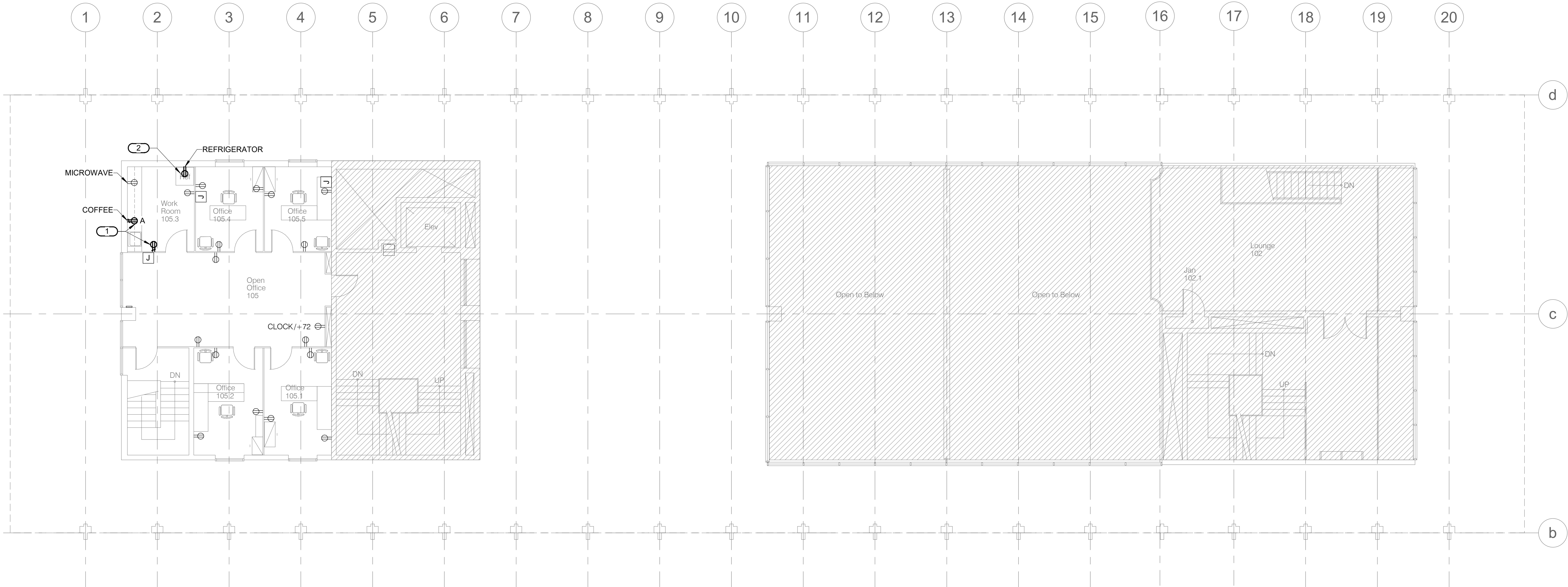


1

MEZZANINE FLOOR PLAN - POWER

1/8" = 1'-0"

- KEYNOTES:** (#
1. CONNECT TO EXISTING CIRCUIT.
 2. PROVIDE SURFACE RACEWAY FOR RECEPTACLE, REFER TO DETAIL 2 ON SHEET EP-300. CIRCUIT TO SPARE BREAKER IN LP-1A.





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key plan: FLOOR LEVEL

NO SCALE AREA OF WORK



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location	Prentis Building

project:
Prentis Building - Rackham
Relocation

sheet title:

MEZZANINE FLOOR PLAN -
POWER

project number: sheet number:
WSU : 00

EP-101-M

FOR BIDS



1 THIRD FLOOR PLAN - POWER
1/8" = 1'-0"

- KEYNOTES:** (#)
1. EXTEND EXISTING BRANCH CIRCUIT TO NEW RECEPTACLE.
 2. CIRCUIT (2) QUADS EACH TO A SPARE 20A BREAKER IN PANEL LP-3B.
 3. CIRCUIT (3) RECEPTS EACH TO A SPARE 20A BREAKER IN PANEL LP-3B.
 4. PROVIDE SURFACE RACEWAY FOR RECEPTACLES. REFER TO DETAIL 2 ON SHEET EP-300.
 5. CIRCUIT WATER HEATER TO SPARE 20A BREAKER IN PANEL LP-3B.
 6. CIRCUIT RECEPTACLE TO SPARE 20A BREAKER IN PANEL LP-3B.
 7. CIRCUIT VAV CONNECTION TO SPARE 20A BREAKER IN PANEL LP-3B.

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NM Project Number - 18113.0

consultants:

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IMEG Project Number - 18004050.00

key plan: FLOOR LEVEL
NO SCALE AREA OF WORK

issue: date:

For Bids	Dec. 11, 2018
100% CD's	Dec. 04, 2018
Owner Review 90% CD's	Nov. 27, 2018
Owner Review 60% CD's	Nov. 13, 2018



designed	JALJAL
drawn	MARABR
coordination checked	JALJAL
checked	JALJAL
location	Prentis Building

project:
Prentis Building - Rackham Relocation

sheet title:

THIRD FLOOR PLAN - POWER

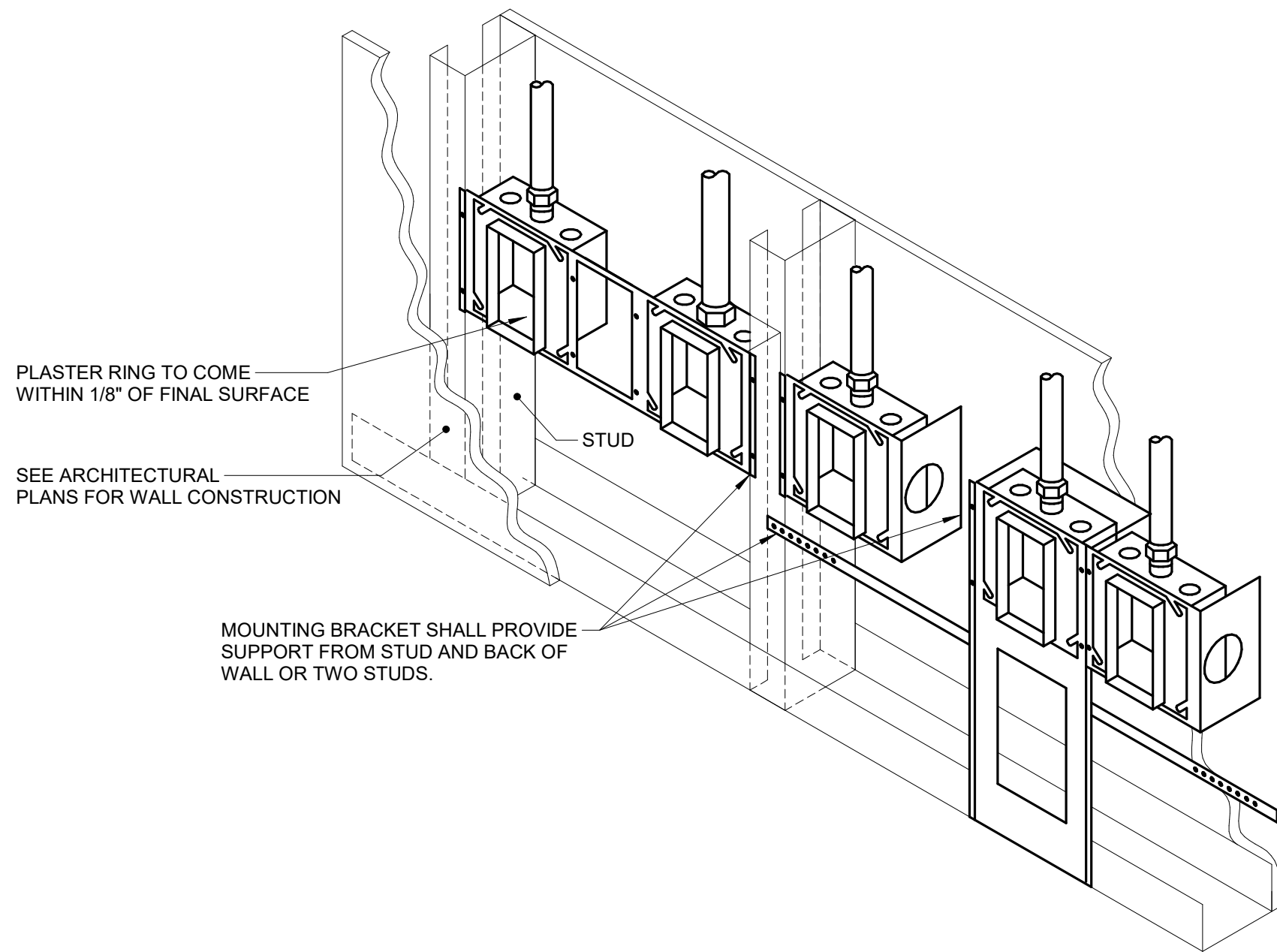
project number: sheet number:
WSU : 00

EP-103

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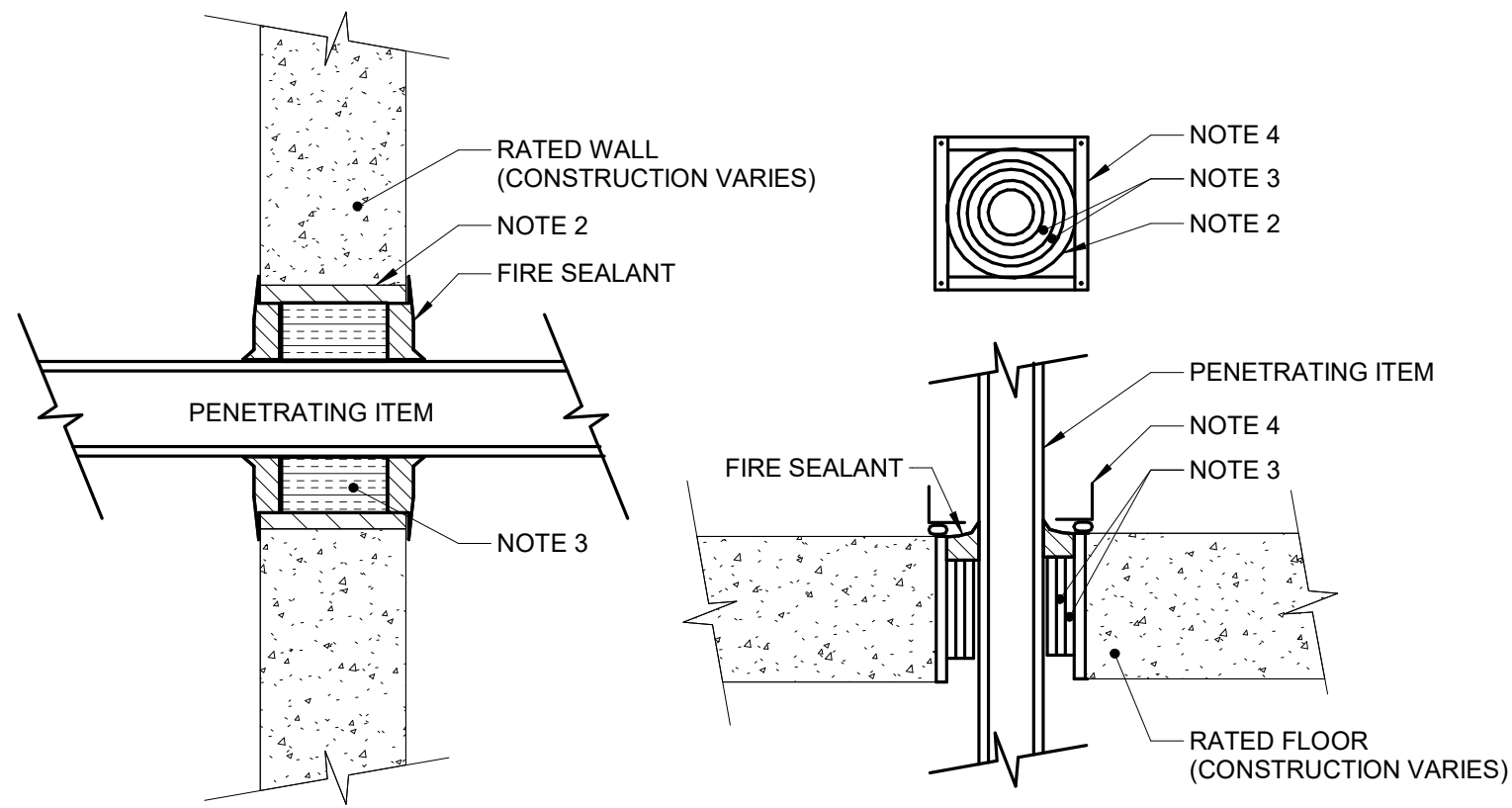
REFERENCE SCALE IN INCHES
0 1 2 3



NOTES :

1. THE INTENT OF THE DETAIL IS TO ENSURE DEVICE ROUGH-INS ARE ALIGNED, SOLIDLY MOUNTED AND THE SURFACE OF THE TRIM IS EITHER FLUSH WITH THE WALL SURFACE OR WITHIN 1/8" OF THE WALL SURFACE. JUNCTION BOXES LARGER THAN 4" SQUARE SHALL BE MOUNTED IN A MANNER THAT IS SIMILAR TO THE SYSTEM NOTED ABOVE OR ACHIEVES THE SAME RESULTS.
2. PLASTER RINGS DEPTH SHALL BE 1/8" DEEPER THAN THE GYP BOARD APPLIED TO THE WALL. PLASTER RING SHALL BE 3/4" FOR USE WITH 5/8" GYP BOARD.
3. MOUNTING BRACKET FOR 2 1/2" OR 3 1/2" STUDS SHALL BE CADDY #H23, OR B-LINE BB4-23. MOUNTING BRACKET FOR 4" OR 6" STUDS SHALL BE CADDY #H46TC OR B-LINE BB4-#. FOR MULTIPLE BOXES BETWEEN STUDS, BRACKET SHALL BE CADDY #RBS16/#RBS24 OR B-LINE BB6-# OR BBF-# FLOOR MOUNT SUPPORT WITH BBFC.
4. WHERE RECEPTACLE AND TECHNOLOGY DEVICES ARE SHOWN SERVING A COMMON COMPUTER OR EQUIPMENT, OR SHOWN IN SIMILAR LOCATIONS ON THE DRAWINGS THE DEVICES SHALL BE INSTALLED ON OPPOSITE SIDES OF A COMMON STUD OR IN ADJACENT OPENINGS WITH MOUNTING BRACKETS.

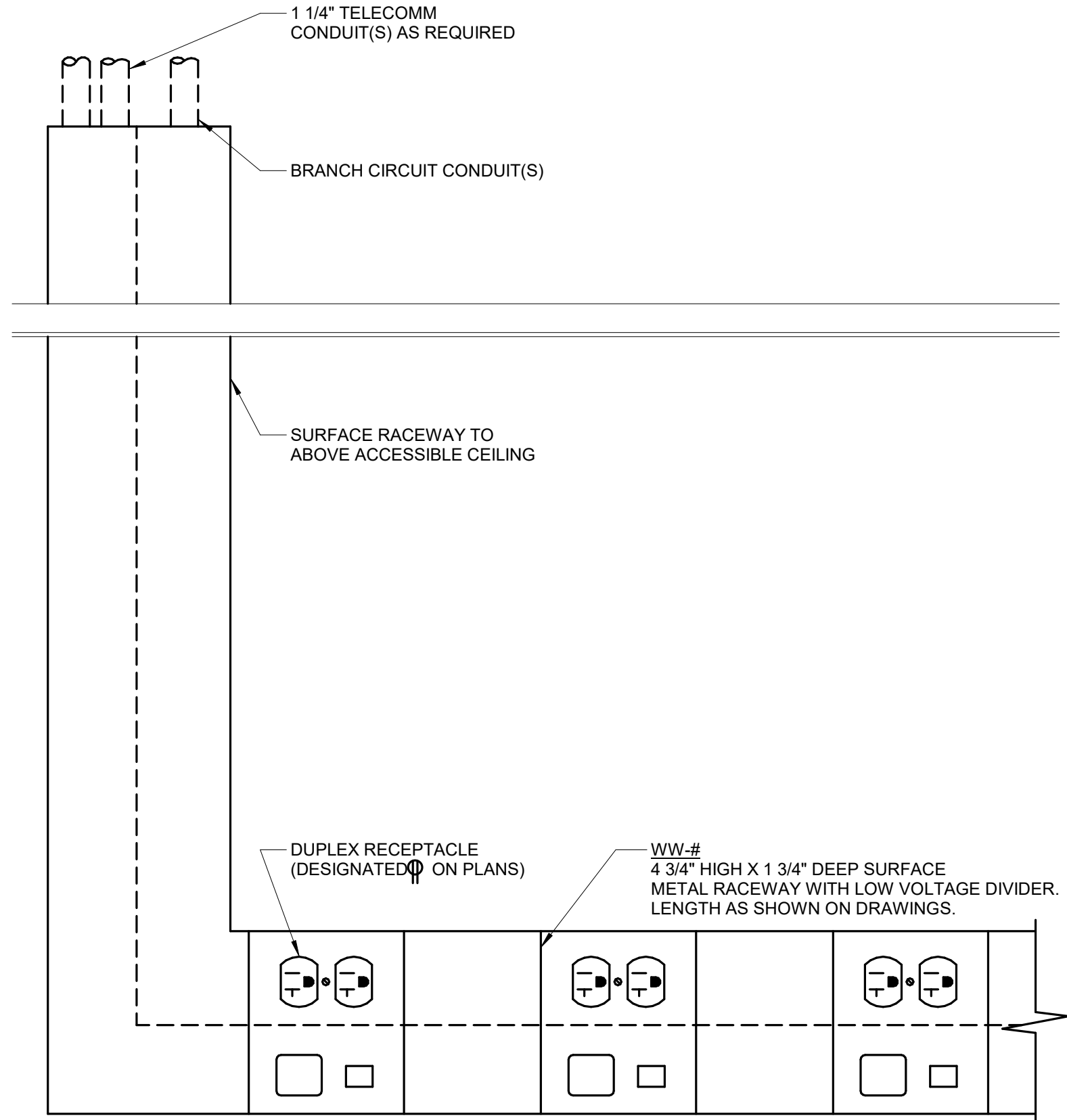
1 BACKBOX MOUNTING DETAIL
NO SCALE



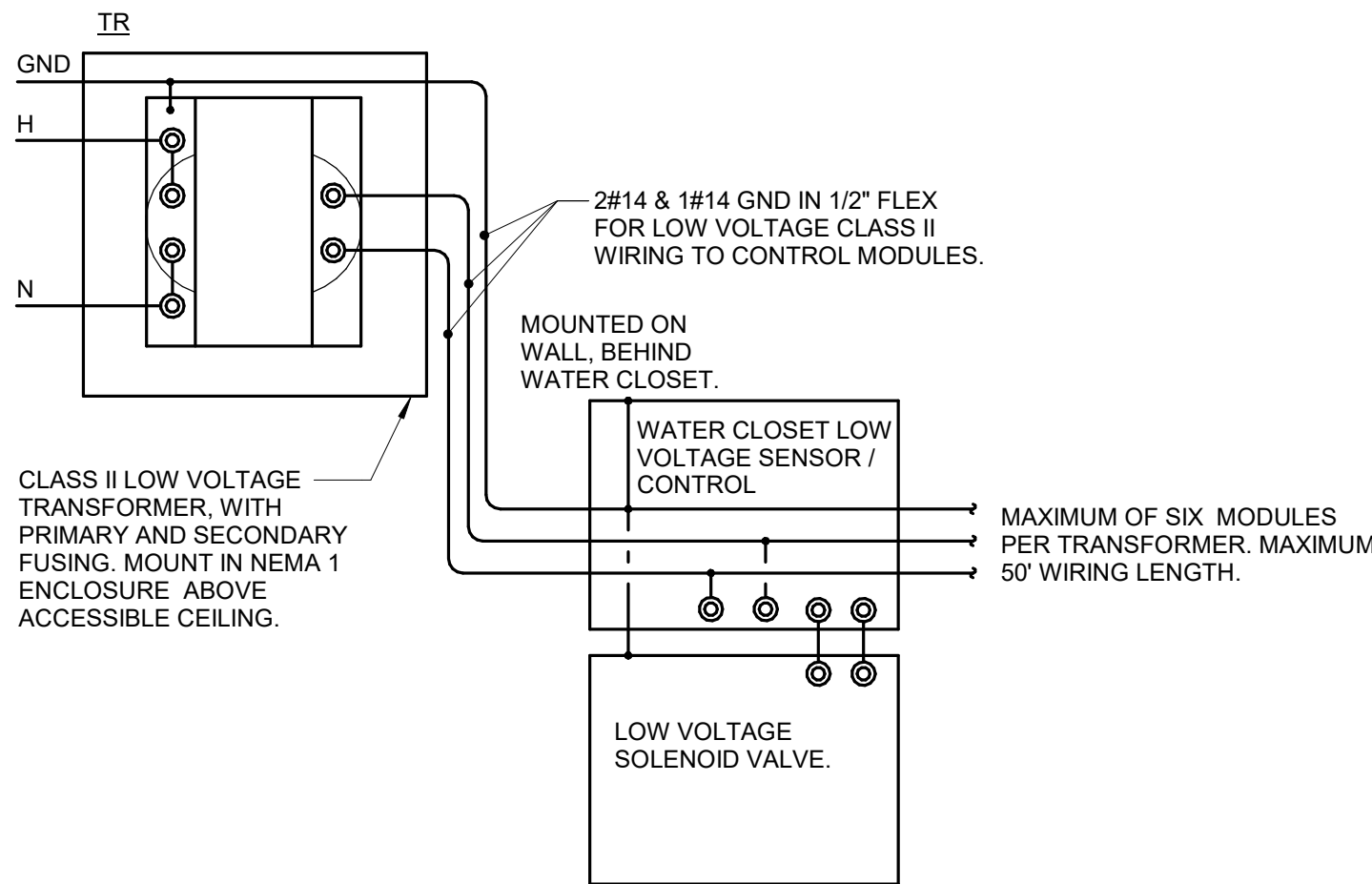
NOTES :

1. THIS GENERAL DETAIL APPLIES TO ALL ITEMS PENETRATING FIRE RATED WALLS OR FLOORS. THE INTENT IS TO MAINTAIN THE FIRE RATING AND TO ALLOW LONGITUDINAL MOVEMENT. REFER TO SPECIFICATION SECTION 07840 (16080) FOR SELECTION OF THROUGH PENETRATION FIRE STOPPING.
2. SCHEDULE 5 PIPE SLEEVE EMBEDDED IN WALL OR FLOOR, OR SMOOTH CORE DRILL. EACH CONTRACTOR FURNISHES SLEEVE TO G.C., COORDINATES SLEEVE LOCATIONS AND DEBURS SLEEVE. G.C. BUILDS SLEEVE INTO WALL OR FLOOR ALLOWING NO GAP AROUND SLEEVE. IF SLEEVE IS NOT PROVIDED WHEN WALL OR FLOOR IS BUILT, CONTRACTOR SHALL INSTALL SLEEVE. SLEEVE SIZE SHALL ALLOW ANNULAR SPACE REQUIRED BY THE SELECTED FIRE STOP SYSTEM.
3. INSTALL BACKING MATERIAL, SUCH AS MINERAL WOOL SAFING, AS REQUIRED FOR FIRE STOP SYSTEM. INSTALL IN ACCORDANCE WITH FIRE STOP SYSTEM APPLICATION LISTING. SECURE TO WALL OR FLOOR TO ALLOW LONGITUDINAL MOVEMENT OF PENETRATING ITEM WITHOUT MOVEMENT OF FIRE BARRIER.
4. WATER-TIGHT WELDED 1"x1" 20 GAUGE MINIMUM GALVANIZED SHEET METAL ANGLE FRAME, BY CONTRACTOR IN EQUIPMENT ROOMS FOR WATER STOP. PLACE A BEAD OF WATERPROOF SEALANT BETWEEN FLOOR AND BOTTOM OF ANGLE FRAME. SECURE TO FLOOR WITH MASONRY ANCHORS IN CORNERS AND ON 12" MAXIMUM CENTERS. MULTIPLE PENETRATING ITEMS MAY BE ENCLOSED IN ONE FRAME.

3 FIRE BARRIER PENETRATION
NO SCALE



2 SURFACE WIREWAY DETAIL
NO SCALE



NOTES :

1. PROVIDE DOUBLE GANG BACKBOXES AND PLASTER RINGS AT LOCATIONS COORDINATED WITH PLUMBING CONTRACTOR (P.C.)
2. E.C. SHALL FIELD VERIFY EXACT SENSOR LOCATION WITH P.C. PRIOR TO ROUGH-IN.

4 ELECTRONIC SENSOR WIRING
NO SCALE

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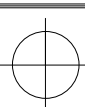
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key plan: FLOOR LEVEL

NO SCALE AREA OF WORK



issue: date:

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designed	JALJAL
drawn	MARABR
coordination checked	JALJAL
checked	JALJAL
location	Prentis Building

project:
Prentis Building - Rackham
Relocation

sheet title:

POWER DETAILS

project number: sheet number:
WSU : 00

EP-300

FOR BIDS

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IMEG Project Number - **18004050.00**

key plan: FLOOR LEVEL

NO SCALE AREA OF WORK

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drawn	MARABR
coordination checked	JALJAL
checked	JALJAL
approved	JEFGLA
location	Prentis Building

project:
Prentis Building - Rackham
Relocation

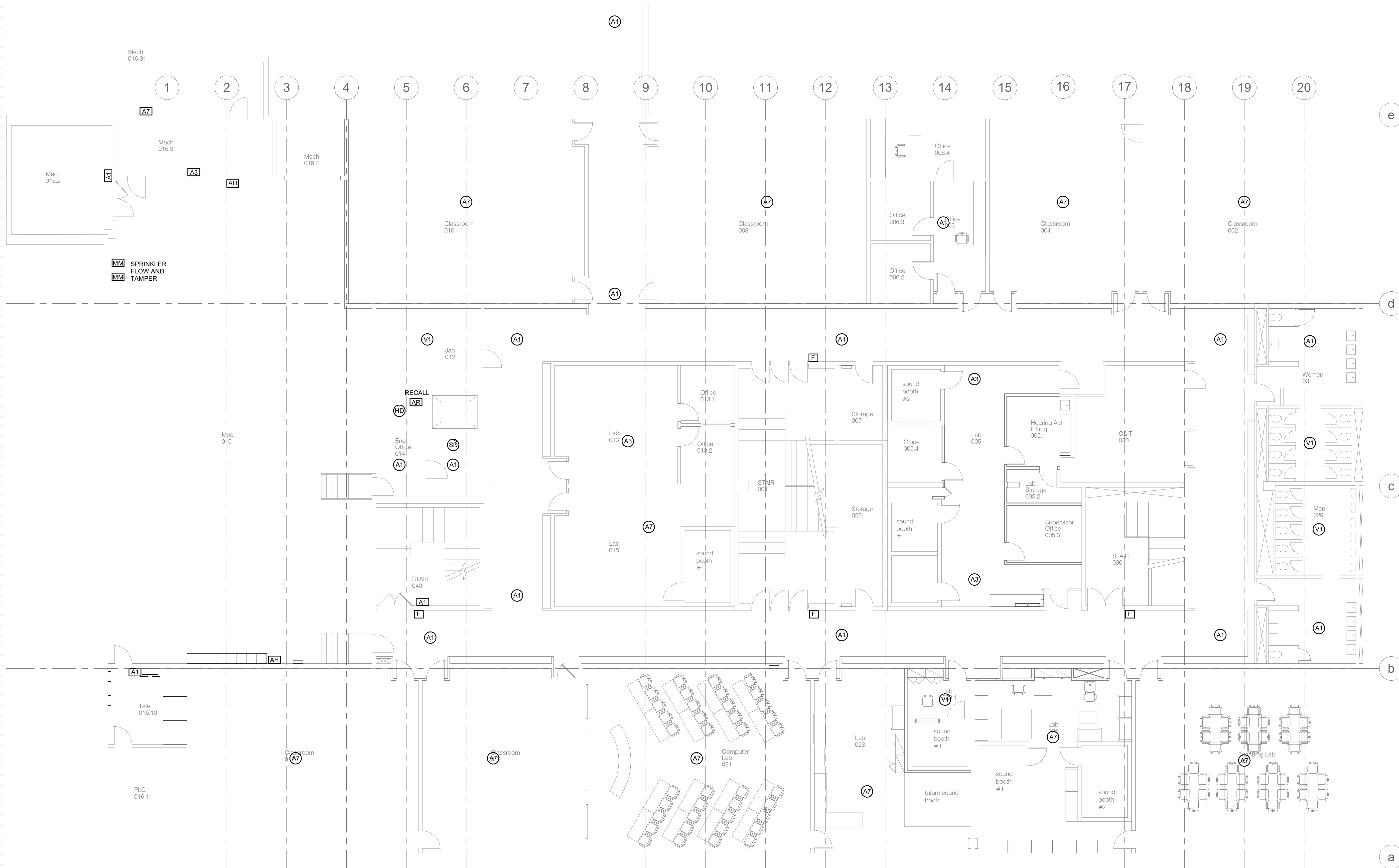
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BASEMENT FLOOR - SYSTEM

project number: sheet number: m
WSU : 00 n

ES-101-B

FOR BIDS



1)

BASEMENT FLOOR - SYSTEM

$$\frac{1}{8}'' = 1'-0''$$


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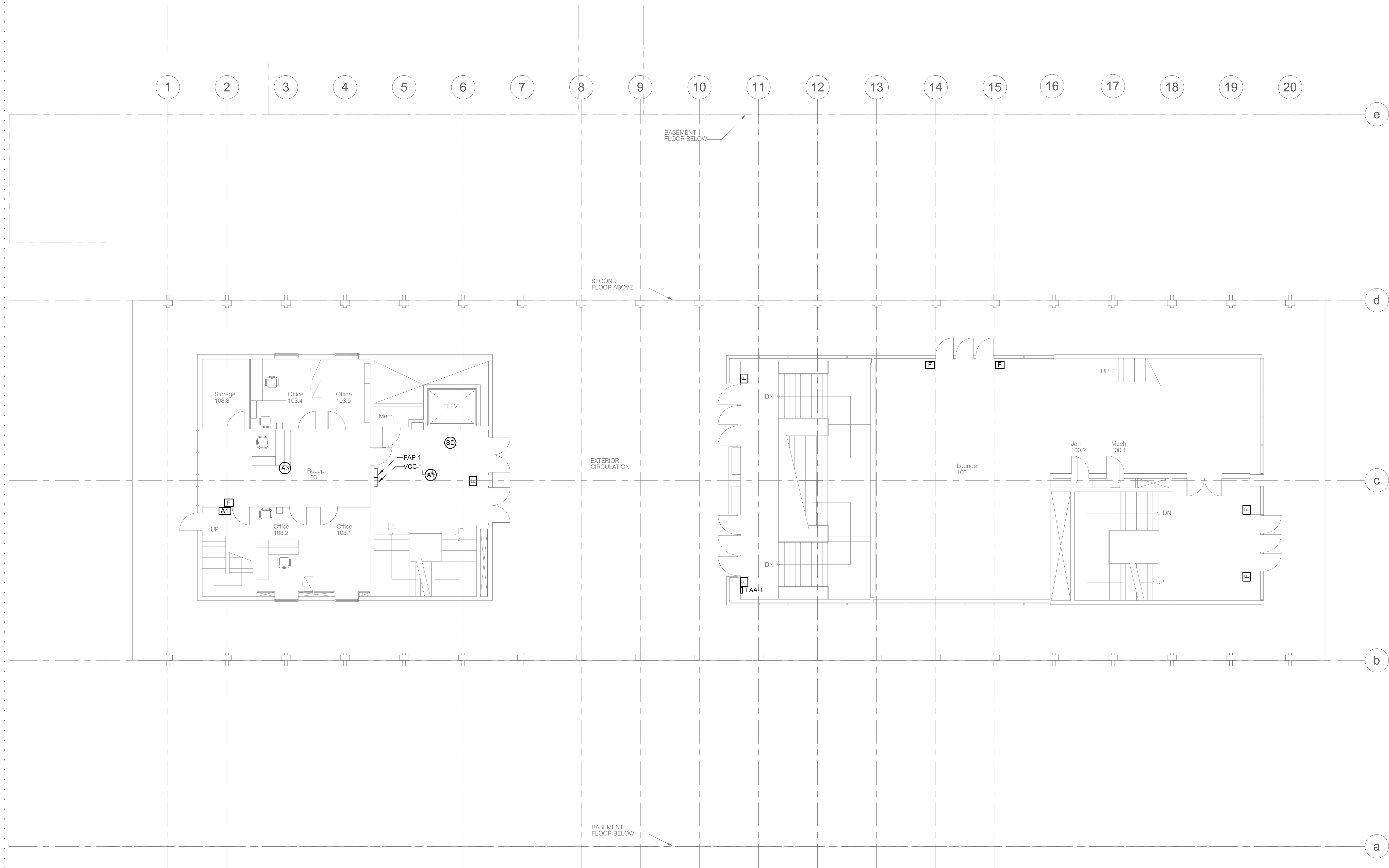
18004050.00 12/10/2018 11:09:47 AM WSU Prentis Bldg Rackham Relocation



1

FIRST FLOOR PLAN - SYSTEMS

1/8" = 1'-0"



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key plan: FLOOR LEVEL
NO SCALE AREA OF WORK

issue: date:

For Bids Dec. 11, 2018
100% CD's Dec. 04, 2018



designed	JALJAL
drawn	MARABR
coordination checked	JALJAL
checked	JALJAL approved JEFGLA
location	Prentis Building

project:
Prentis Building - Rackham
Relocation

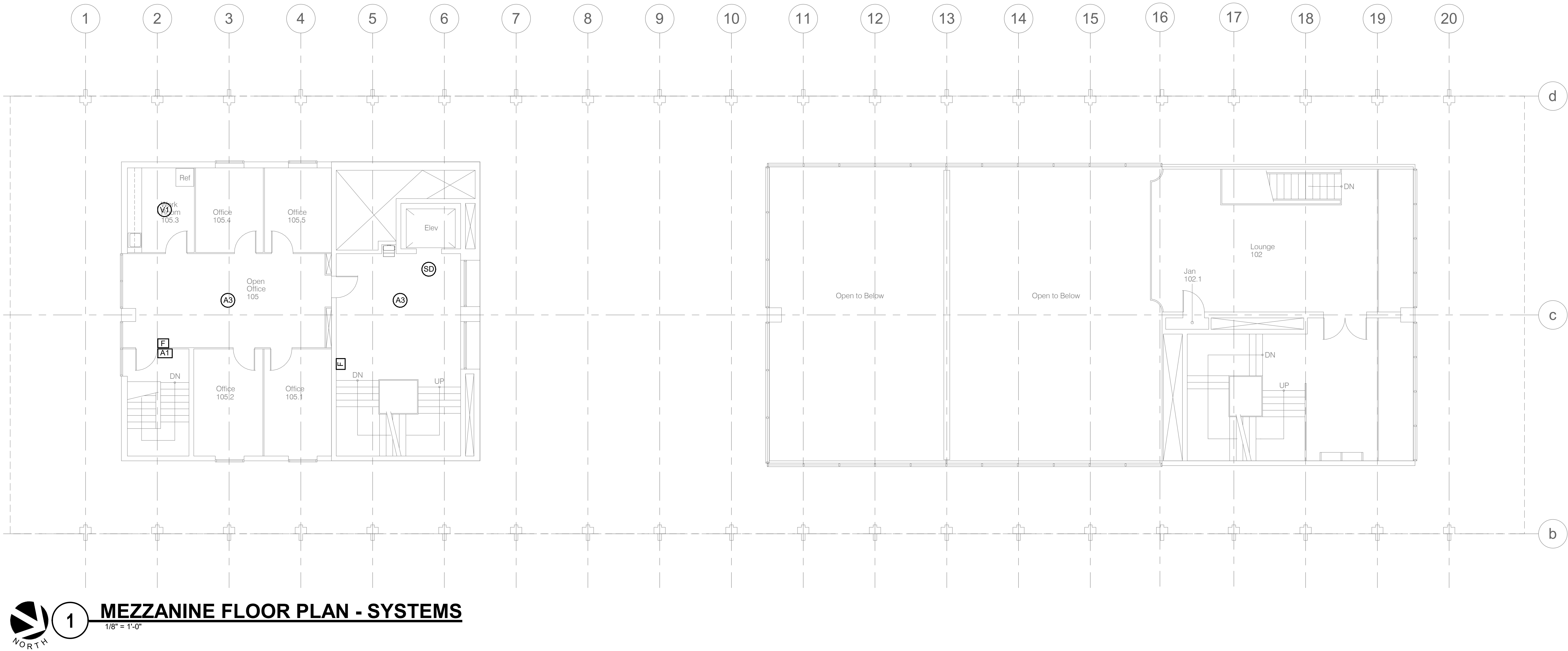
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FIRST FLOOR PLAN - SYSTEMS

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key plan: FLOOR LEVEL

NO SCALE AREA OF WORK

issue: date:

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drawn MARABR
coordination checked JALJAL
checked JALJAL approved JEFGLA
location Prentis Building

project:
Prentis Building - Rackham
Relocation

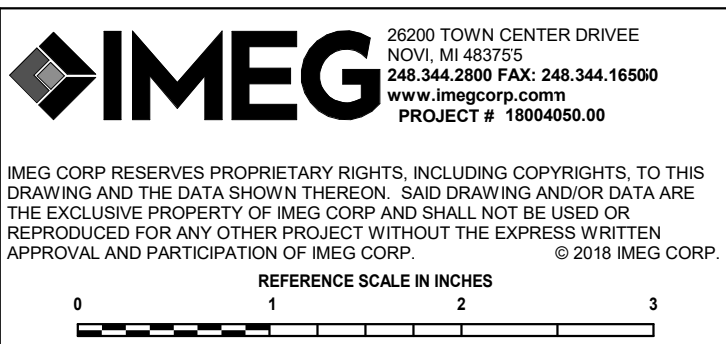
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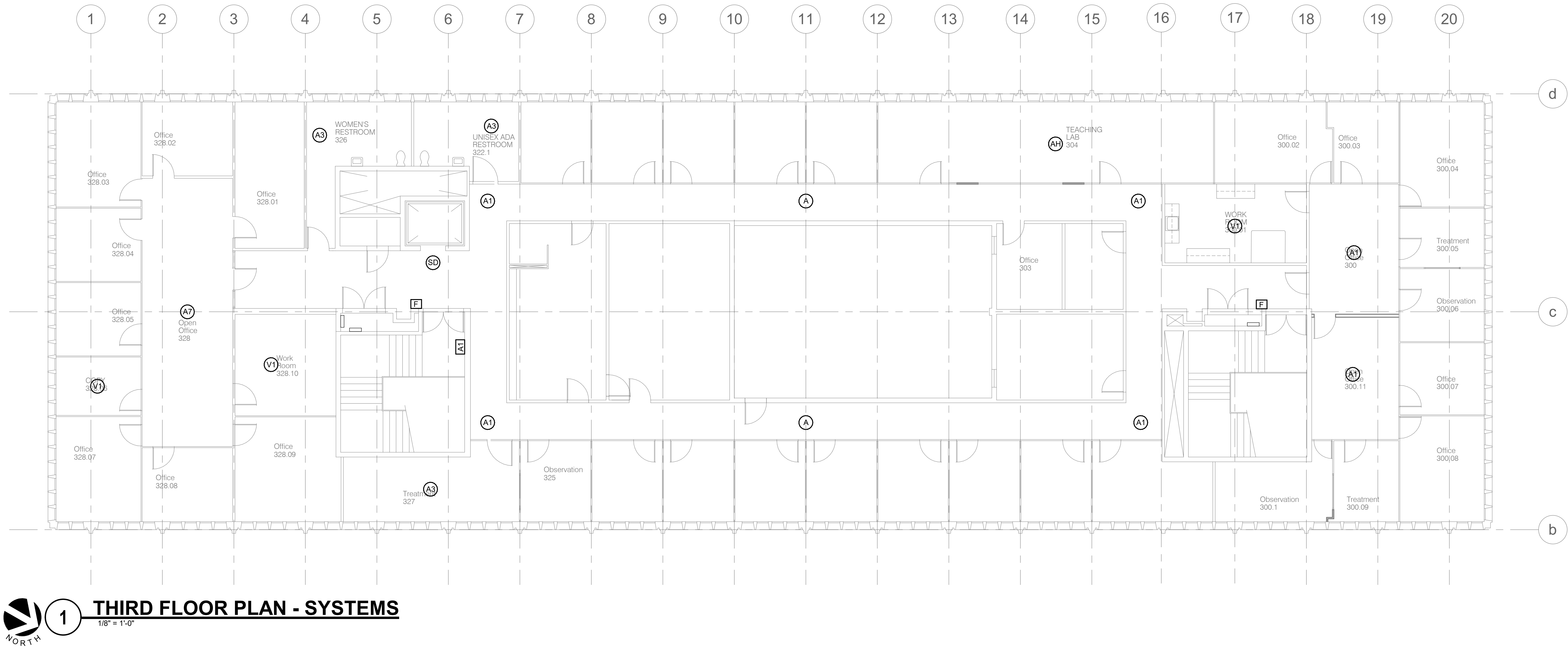
**MEZZANINE FLOOR PLAN -
SYSTEMS**

project number: sheet number:
WSU : 00

ES-101-M

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IMEG Project Number - 18004050.00

key plan: FLOOR LEVEL

NO SCALE AREA OF WORK

issue: date:

For Bids Dec. 11, 2018
100% CD's Dec. 04, 2018



designed JALJAL
drawn MARABR
coordination checked JALJAL
checked JALJAL approved JEFGLA
location Prentis Building

project:
Prentis Building - Rackham
Relocation

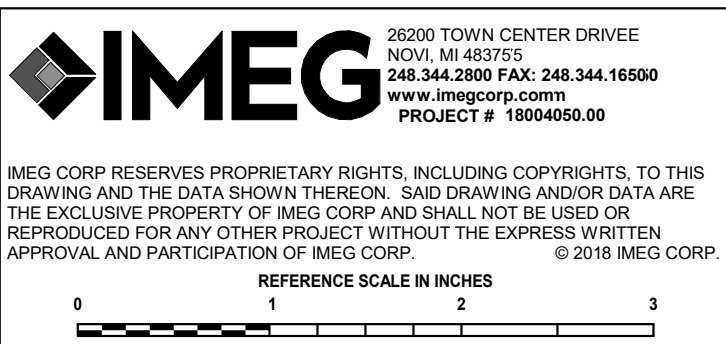
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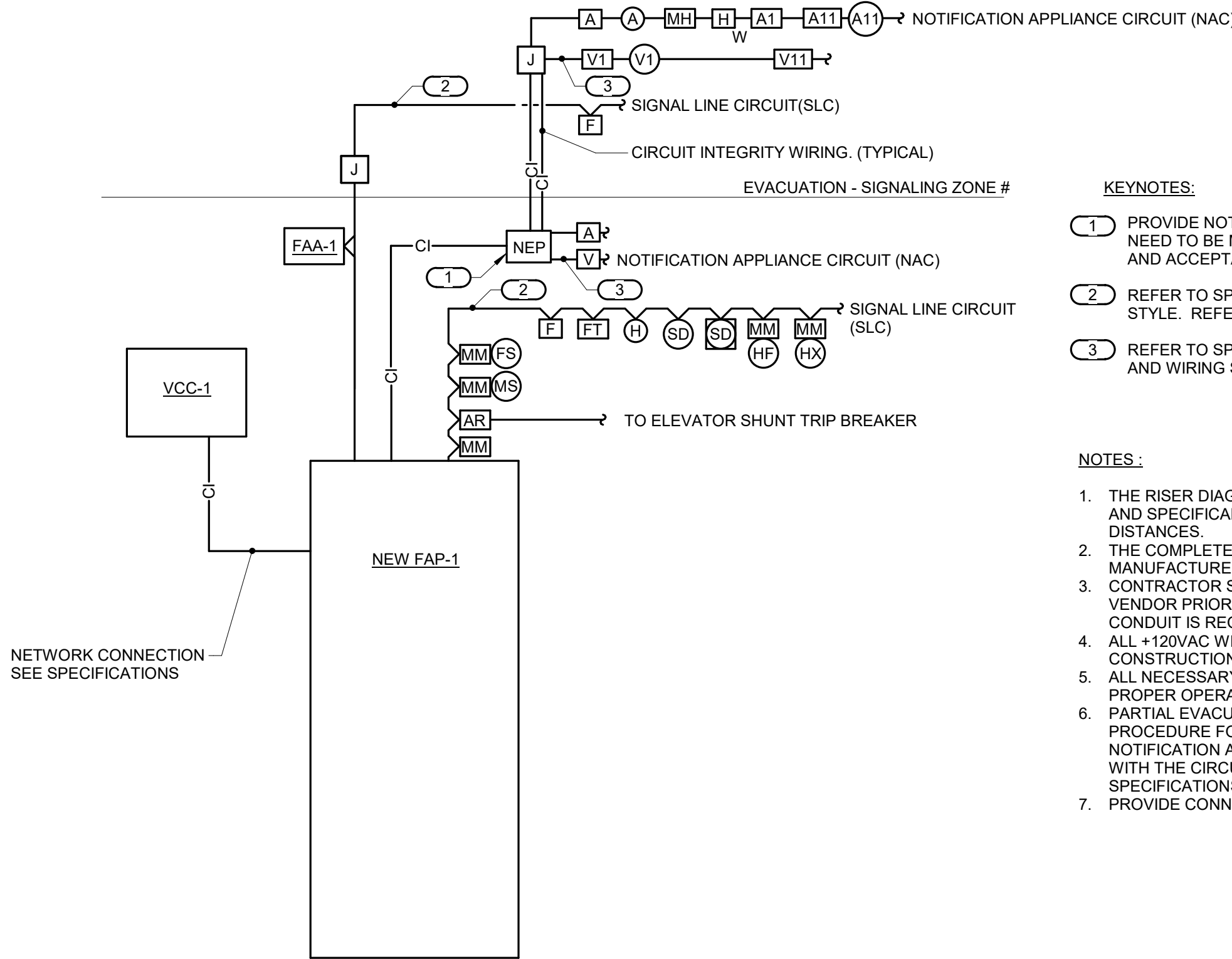
THIRD FLOOR PLAN - SYSTEMS

project number: sheet number:
WSU : 00

ES-103

FOR BIDS





KEYNOTES:

1. PROVIDE NOTIFICATION APPLIANCE EXTENDER PANELS AS REQUIRED. DETERMINATION OF NEED TO BE MADE BY FIRE ALARM VENDOR. REFER TO SPECIFICATIONS FOR REQUIREMENTS AND ACCEPTABLE MOUNTING LOCATIONS.
2. REFER TO SPECIFICATION FOR REQUIREMENTS OF EACH INITIATION LOOP AND WIRING STYLE. REFER TO FLOOR PLANS FOR DEVICES AND THEIR LOCATIONS.
3. REFER TO SPECIFICATION FOR REQUIREMENTS OF EACH NOTIFICATION APPLIANCE CIRCUIT AND WIRING STYLE. REFER TO FLOOR PLANS FOR DEVICES AND THEIR LOCATIONS.

NOTES:

1. THE RISER DIAGRAM IS INTENDED TO CONVEY THE TYPES OF FIRE ALARM CONNECTIONS AND SPECIFICALLY DOES NOT INDICATE QUANTITIES, NUMBER OF CIRCUITS REQUIRED OR DISTANCES.
2. THE COMPLETE FIRE ALARM SYSTEM SHALL MEET ALL APPLICABLE CODES AND MANUFACTURER'S RECOMMENDATIONS.
3. CONTRACTOR SHALL COORDINATE ALL WIRE SIZES, TYPES AND REQUIREMENTS WITH THE VENDOR PRIOR TO BID. REFER TO SPECIFICATIONS TO DETERMINE CIRCUIT STYLES AND IF CONDUIT IS REQUIRED OR PLENUM RATED CABLE IS ACCEPTABLE.
4. ALL +120VAC WIRING REQUIRED FOR OPERATION OF THE SYSTEM AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
5. ALL NECESSARY RELAYS MAY NOT BE SHOWN ON THIS PLAN, BUT WHERE REQUIRED FOR PROPER OPERATION OF THE SYSTEM THEY SHALL BE PROVIDED BY THE CONTRACTOR.
6. PARTIAL EVACUATION OR RELOCATION OF OCCUPANTS IS THE STANDARD OPERATING PROCEDURE FOR THIS FACILITY IN THE EVENT OF AN ALARM. THEREFORE, ALL NOTIFICATION APPLIANCE CIRCUITS MUST BE INSTALLED AND PROTECTED IN ACCORDANCE WITH THE CIRCUIT SURVIVABILITY REQUIREMENTS DESCRIBED IN NFPA 72. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
7. PROVIDE CONNECTIONS FOR WORK ON SECOND FLOOR (NIC), COORDINATE WITH OWNER.

1 FIRE ALARM RISER
NO SCALE



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key plan: FLOOR LEVEL
NO SCALE AREA OF WORK

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location	Prentis Building

project:
Prentis Building - Rackham
Relocation

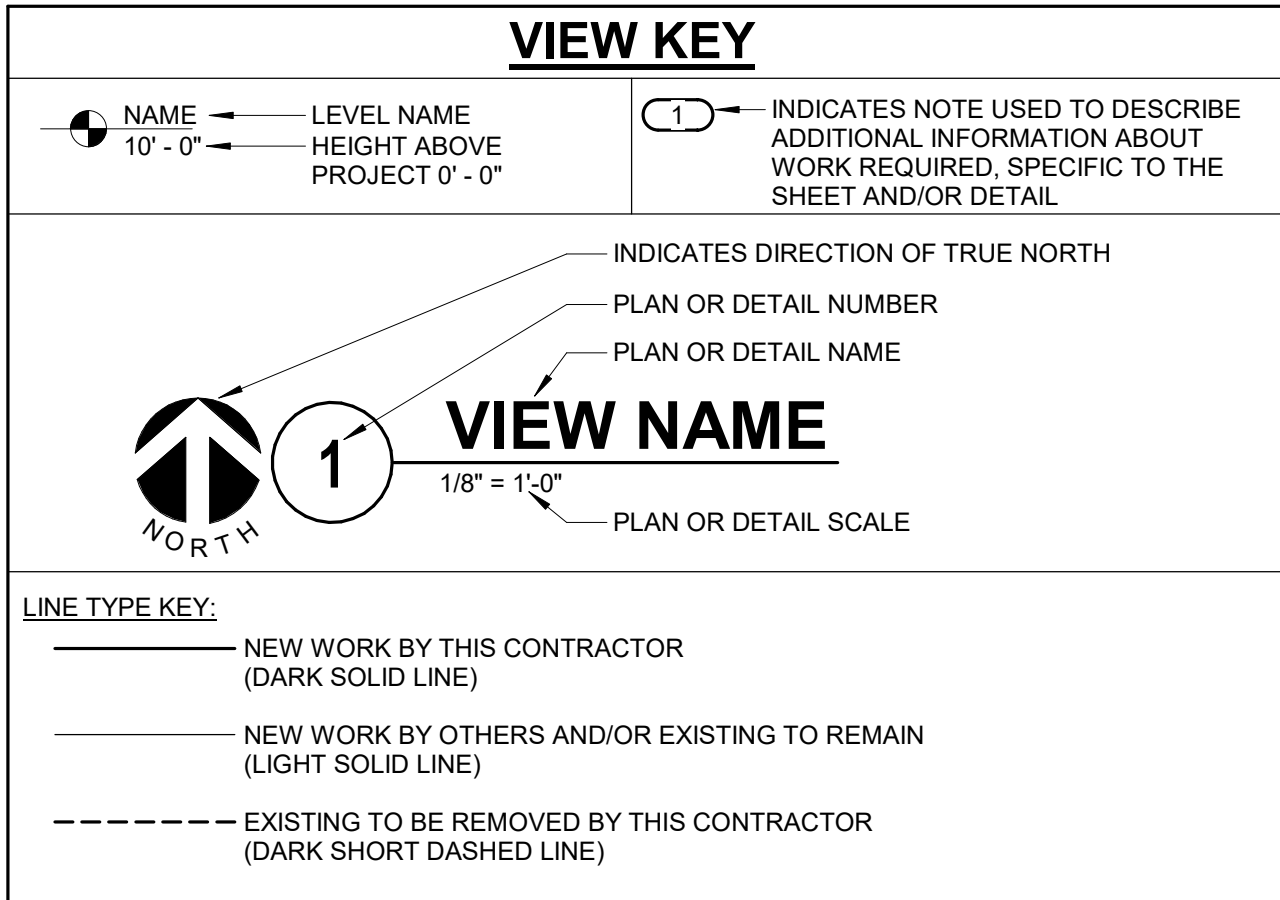
sheet title:

SYSTEM DETAILS

project number: sheet number:
WSU : 00

ES-300

FOR BIDS



APPLICABLE CODES	
CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS.	
BUILDING CODE:	MBC 2015 EDITION
FIRE CODE:	NFPA 13: 2013 EDITION
PLUMBING CODE:	MBC 2015 EDITION
MECHANICAL CODE:	MMC 2015 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2016EDITION
LIFE SAFETY CODE:	NFPA 101 2015 EDITION
ENERGY CONSERVATION CODE:	ASHRAE 90.1 2013
HEALTH DEPARTMENT CODE:	CURRENT EDITION
LOCAL BUILDING CODE:	CURRENT EDITION

CONTRACTOR ABBREVIATION KEY	
ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
A.V.C.	AUDIO/VISUAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

TECHNOLOGY SYMBOL LIST			
SYMBOL:	EQUIPMENT LIST ABBREV.:	DESCRIPTION:	NOTE:
	SC-IO-C	INFORMATION OUTLET (CEILING)	1.
	SC-IO-W	INFORMATION OUTLET (WALL)	1.
	IC-IM1-W	INTERCOM MASTER STATION - TYPE 1 (WALL)	.
	IC-IS1-W	INTERCOM STATION - TYPE 1 (WALL)	.
	N/A	EXISTING WIRELESS ACCESS POINT DEVICE (CEILING)	.
	N/A	EXISTING INFORMATION OUTLET (WALL)	.
	N/A	EXISTING CLOCK (WALL)	.
	N/A	EXISTING CREDENTIAL READER	.
	N/A	EXISTING KEYPAD	.
	C	CONDUIT	.
		CONDUIT DOWN	.
		CONDUIT UP OR UP/DOWN	.
		CONDUIT SLEEVE	.
		CONTINUATION	.

- GENERAL NOTES:**
- ALL SYMBOLS AND ABBREVIATIONS LISTED MAY NOT BE APPLICABLE TO THIS PROJECT. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE COMPLETE DESCRIPTION AND ITEMS.
 - ALL SYMBOLS AND ABBREVIATIONS REFER TO TECHNOLOGY SHEETS ONLY AS DEFINED ON THE SHEET INDEX. REFER TO THE GENERAL TECHNOLOGY NOTES FOR ADDITIONAL INFORMATION.
 - ALL SYMBOLS LISTED ABOVE ARE FOR REFERENCE ONLY. REFER TO PLANS AND LINE TYPE KEY FOR NEW, EXISTING TO REMAIN AND TO BE REMOVED ITEMS FOR ADDITIONAL INFORMATION.
- TECHNOLOGY SYMBOL NOTES:**
- "C#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION. REFER TO INFORMATION OUTLET SCHEDULE ON T-200 FOR ADDITIONAL INFORMATION.

TECHNOLOGY ABBREVIATION KEY	
ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
BFC	BELOW FINISHED CEILING
C	CONDUIT
J-BOX	JUNCTION BOX
SIM	SIMILAR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
+ #	MOUNTING HEIGHT ABOVE FINISHED FLOOR
TR-#	TELECOMMUNICATIONS ROOM

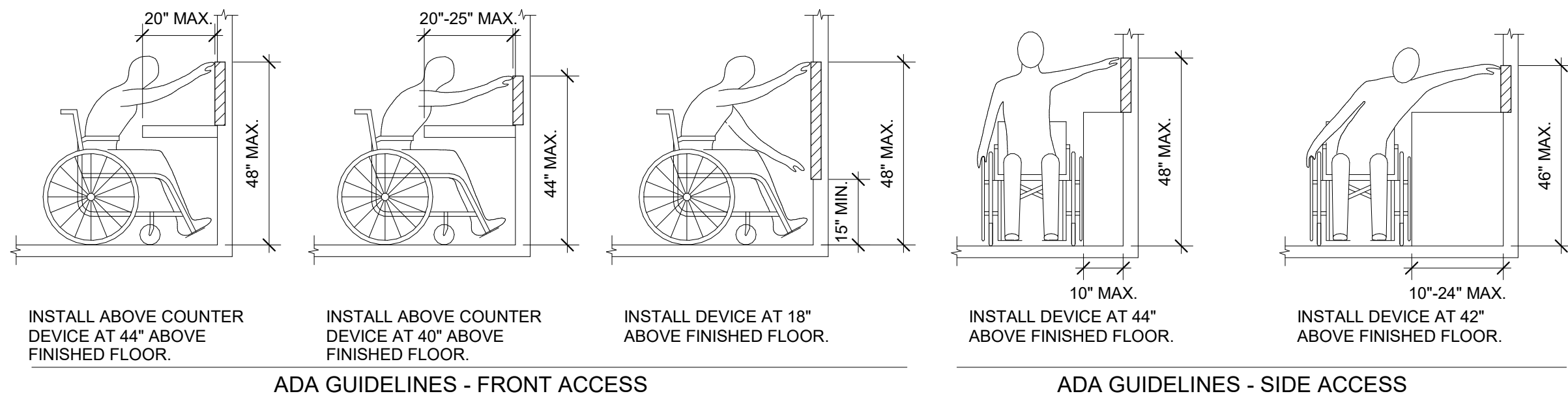
SUGGESTED MATRIX OF RESPONSIBILITY				
ITEM:	SHOWN ON:	FURNISHED BY:	INSTALLED BY:	NOTES:
TECHNOLOGY ROUGH-IN, REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION	T-SERIES	E.C.	E.C.	3, 4.
INFORMATION OUTLET FACEPLATES, JACKS, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)	T-SERIES	E.C.	E.C.	
CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	T.C.	2, 4.
TELECOMMUNICATION SYSTEMS ROUGH-IN	T-SERIES	E.C.	E.C.	1.
TELECOMMUNICATION EQUIPMENT, CABLING, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
GROUNDING LUGS ON TECHNOLOGY EQUIPMENT	T-SERIES	T.C.	E.C.	6.
LINE VOLTAGE POWER (+120V OR GREATER)	E-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	E.C.	2, 4.
LOW VOLTAGE CABLING FOR TECHNOLOGY SYSTEMS	T-SERIES	T.C.	T.C.	
CABLE HANGERS AND SUPPORTS OR OTHER CABLE ROUTING METHODS (OTHER THAN CONDUIT AND CABLE TRAY)	T-SERIES	T.C.	T.C.	5.
FLOOR BOX (ROUGH-IN)	T & E SERIES	E.C.	E.C.	

- SUGGESTED MATRIX OF RESPONSIBILITY NOTES**
- LOCATIONS OF TELECOMMUNICATIONS ROUGH-INS SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOLS ON THE DRAWINGS. REFER TO THE TECHNOLOGY SYMBOL LIST FOR ADDITIONAL INFORMATION.
 - BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS, ALL REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS FOR ALL ACCEPTABLE MANUFACTURERS.
 - INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE CONTRACT DOCUMENTS.
 - ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF THE T.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR SHALL BE INCLUDED IN THE T.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN.
 - UNLESS TRADE RULES DICTATE OTHERWISE.
 - FURNISHED AS PART OF THE EQUIPMENT WHEN POSSIBLE, OR FURNISHED TO THE E.C. FOR INSTALLATION IN THE FIELD.

- TECHNOLOGY GENERAL NOTES:**
- #### INDICATES GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ITEM LABELED AS "EQUIPMENT LIST ABBREVIATION"
 - REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR FULL DESCRIPTIONS AND MANUFACTURERS OF ALL DEVICES.
- TECHNOLOGY MOUNTING SUBSCRIPT KEY:
- A MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
- H MOUNT ORIENTED HORIZONTALLY
- L MOUNT IN CASEWORK
- M MOUNT IN MODULAR FURNITURE
- S MOUNT IN SURFACE RACEWAY
- A SLASH IS USED BETWEEN TWO SUBSCRIPTS, E.G., A/H.

- TECHNOLOGY INSTALLATION NOTES:**
- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
 - CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.
 - BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
 - VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL TELECOMMUNICATIONS INSTALLATION, ADJUST OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
 - TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TELECOMMUNICATION DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
 - ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO 26 05 03 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
 - REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF TELECOMMUNICATIONS WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.
 - FLUSH MOUNT ALL TELECOMMUNICATION OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
 - MOUNTING HEIGHTS SHALL BE AS FOLLOWS:
 - LIGHTING SWITCHES 4'-0"
 - RECEPTACLES (GENERAL AREAS) 1'-6"
 - RECEPTACLES (UTILITY AREAS) 4'-0"
 - TELECOMMUNICATION OUTLETS 1'-6"
 - WALL PHONE 4'-0"
 - FIRE ALARM STATIONS 4'-0"
 - FIRE ALARM SIGNALS 7'-6"
 - CLOCKS/CLOCK OUTLETS 1'-6" BELOW FIN. CEIL.
 - SAFETY SWITCHES 5'-0" TO TOP

TECHNOLOGY SHEET INDEX	
T-000	TECHNOLOGY COVERSHEET
TD-101-B	BASEMENT FLOOR DEMOLITION - TECHNOLOGY
TD-103	THIRD FLOOR DEMOLITION - TECHNOLOGY
T-101-B	BASEMENT FLOOR - TECHNOLOGY
T-101	FIRST FLOOR PLAN - TECHNOLOGY
T-103	THIRD FLOOR PLAN - TECHNOLOGY
T-200	TECHNOLOGY DETAILS, RISERS AND SCHEDULES



ADA STANDARDS FOR ACCESSIBLE DESIGN

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key plan: FLOOR LEVEL

NO SCALE AREA OF WORK

issue: date:

For Bids Dec. 11, 2018
100% CD's Dec. 04, 2018
Owner Review 90% CD's Nov. 27, 2018



designed **TIMADA**
drawn **POOVYA**
coordination checked **TIMADA**
checked **TIMADA** approved **JFEGIL**
location Prentis Building

project:
Prentis Building - Rackham
Relocation

sheet title:

TECHNOLOGY COVERSHEET

project number: sheet number:
WSU : 00

T-000



1

BASEMENT FLOOR DEMOLITION - TECHNOLOGY

1/8" = 1'-0"

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checked	TIMADA approved JEFGL
location	Prentis Building

project:
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Relocation

sheet title:

BASEMENT FLOOR DEMOLITION
- TECHNOLOGY

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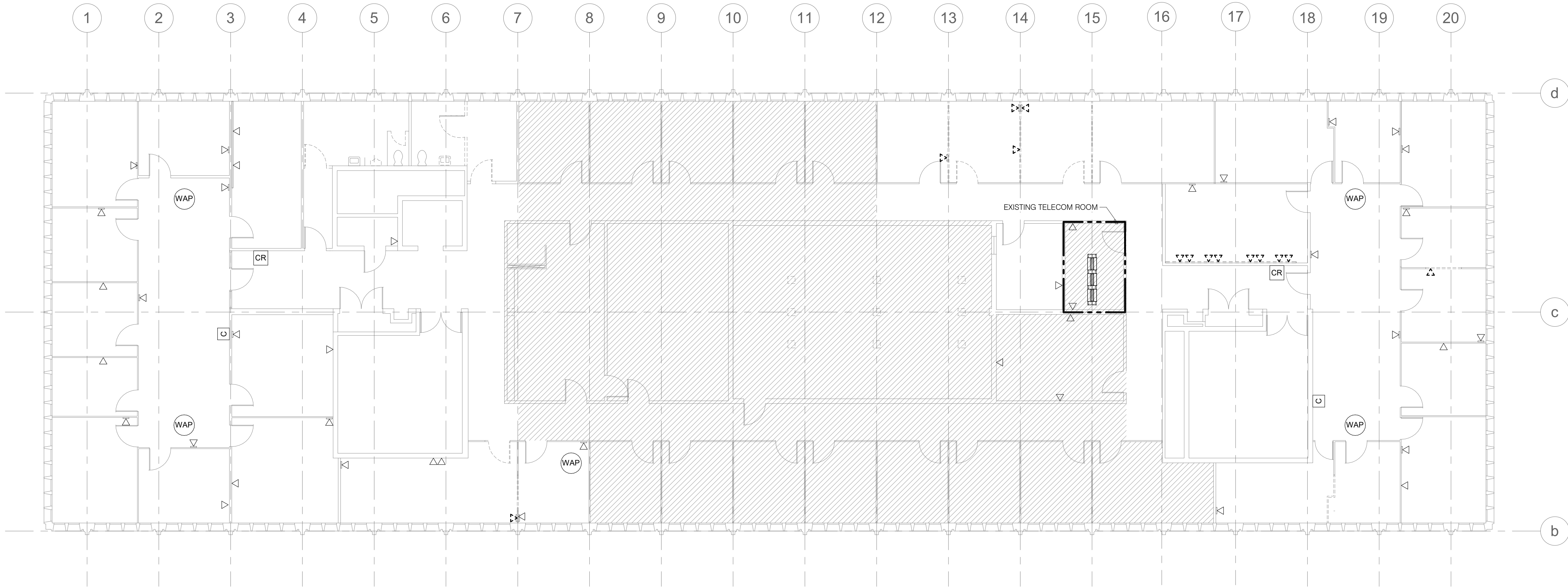
sheet title:

THIRD FLOOR DEMOLITION -
TECHNOLOGY

project number: sheet number:
WSU : 00

TD-103

FOR BIDS



1

THIRD FLOOR DEMOLITION - TECHNOLOGY

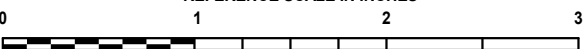
1/8" = 1'-0"



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BASEMENT FLOOR - TECHNOLOGY

1/8" = 1'-0"



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 2. REFER TO T-200 FOR TECHNOLOGY SYMBOL LIST AND GENERAL TECHNOLOGY INSTALLATION NOTES.
 3. REFER TO T-200 FOR GENERAL TECHNOLOGY EQUIPMENT SCHEDULE.
 4. REFER TO 1/T-200 FOR CONNECTIVITY DIAGRAM AND ADDITIONAL REQUIREMENTS.
- KEYNOTES:** C #
1. PROVIDE SURFACE RACEWAY FOR TECHNOLOGY OUTLETS INDICATED.

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key plan: FLOOR LEVEL
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drawn **POOVYA**
coordination checked **TIMADA**
checked **TIMADA** approved **JEFGL**
location Prentis Building

project:
Prentis Building - Rackham Relocation

sheet title:

BASEMENT FLOOR - TECHNOLOGY

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1

FIRST FLOOR PLAN - TECHNOLOGY

1/8" = 1'-0"





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2. REFER TO T-200 FOR TECHNOLOGY SYMBOL LIST AND GENERAL TECHNOLOGY INSTALLATION NOTES.

3. REFER TO T-200 FOR GENERAL TECHNOLOGY EQUIPMENT SCHEDULE.

4. REFER TO 1/T-200 FOR CONNECTIVITY DIAGRAM AND ADDITIONAL REQUIREMENTS.

- KEYNOTES: C-#
1. PROVIDE SURFACE RACEWAY FOR TECHNOLOGY OUTLETS.

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key plan: FLOOR LEVEL
NO SCALE AREA OF WORK

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drawn	POOVYA
coordination checked	TIMADA
checked	TIMADA approved JEF GIL
location	Prentis Building

project:
Prentis Building - Rackham
Relocation

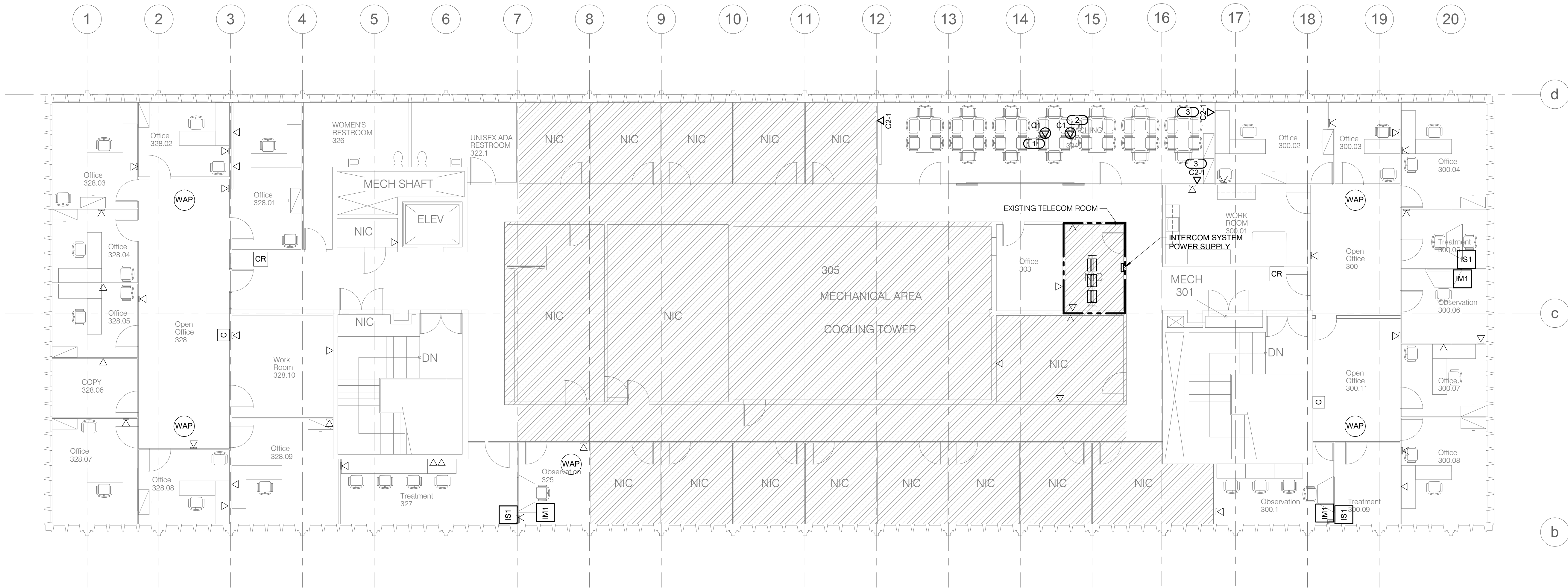
sheet title:

FIRST FLOOR PLAN -
TECHNOLOGY

project number: sheet number:
WSU : 00

T-101

FOR BIDS



1 THIRD FLOOR PLAN - TECHNOLOGY
1/8" = 1'-0"

- GENERAL NOTES:**
1. ALL NEW INFORMATION OUTLET ON THIS SHEET SHALL BE SERVED FROM THE EXISTING BASEMENT FLOOR TELECOMMUNICATIONS ROOM UNLESS OTHERWISE NOTED.
 2. REFER TO T-100 FOR TECHNOLOGY SYMBOL LIST AND GENERAL TECHNOLOGY INSTALLATION NOTES.
 3. REFER TO T-200 FOR GENERAL TECHNOLOGY EQUIPMENT SCHEDULE.
 4. REFER TO 1/T-200 FOR CONNECTIVITY DIAGRAM AND ADDITIONAL REQUIREMENTS.

- KEYNOTES: C #**
1. PROVIDED FOR OWNER FURNISHED VIDEO PROJECTOR.
 2. PROVIDED FOR OWNER FURNISHED WIRELESS ACCESS POINT. COORDINATE SPECIFIC LOCATION WITH OWNER PRIOR TO INSTALLATION.
 3. PROVIDE SURFACE RACEWAY FOR TECHNOLOGY OUTLETS.

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key plan: FLOOR LEVEL
NO SCALE AREA OF WORK

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drawn **POOVYA**
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checked **TIMADA** approved **JEFGIL**
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project:
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sheet title:

THIRD FLOOR PLAN - TECHNOLOGY

project number: sheet number:
WSU : 00

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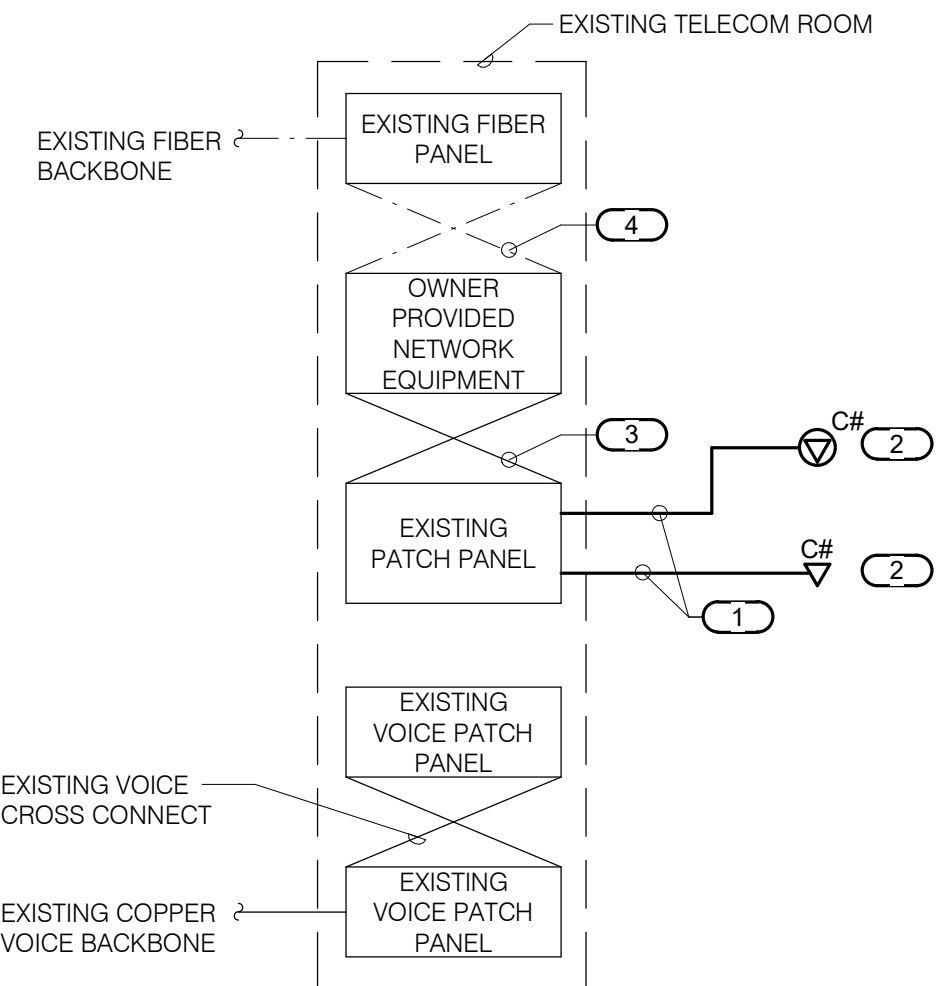
EXISTING TELECOMMUNICATIONS ROOM - CONNECTIVITY DIAGRAM

NO SCALE
NOTES:

- THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING AND QUANTITY INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- REFER TO T-200 FOR GENERAL TECHNOLOGY EQUIPMENT SCHEDULE.

KEYNOTES: (C#)

- 23 GAUGE, 4-PAIR, CATEGORY 6, UNSHIELDED TWISTED PAIR CABLE, SEE SPECIFICATIONS.
- REFER TO INFORMATION OUTLET SCHEDULE ON T-200 AND THE FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
- EXISTING RJ45 TO RJ45 CATEGORY CAT 6 UTP PATCH CORD.
- EXISTING FIBER PATCH CORD.
- NEW INFORMATION OUTLETS (SC-IO-W) TO TERMINATE TO AVAILABLE OPEN SPACES ON EXISTING MODULAR PATCH PANELS AND VOICE TERMINATION BLOCKS.

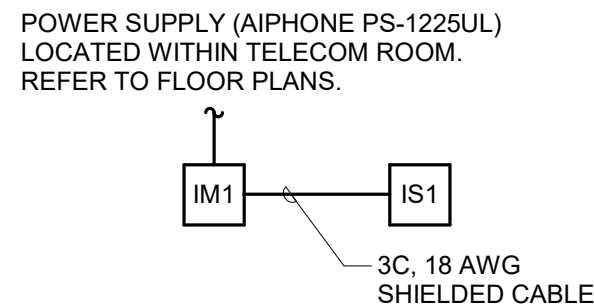


2

INTERCOM RISER DIAGRAM

NO SCALE
NOTES:

- THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CONDUCTOR TYPE. ALL CONNECTIONS AND SYSTEM DEVICES SHOWN ARE TYPICAL AND NOT REPRESENTATIVE OF ACTUAL PROJECT QUANTITIES. REFER TO FLOOR PLANS AND ENLARGED FLOOR PLANS FOR ACTUAL QUANTITIES AND LOCATIONS OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



INFORMATION OUTLET SCHEDULE

SINGLE GANG WALLPLATES

2-Port Faceplate

IDENTIFICATION

1

2

IDENTIFICATION

3-Port Faceplate

IDENTIFICATION

1

2

3

IDENTIFICATION

NUMBER INDICATES FACEPLATE POSITION (TYP.)

REFER TO SPECIFICATIONS FOR IDENTIFICATION REQUIREMENTS (TYP.)

PAIR 3

PAIR 2

PAIR 1

PAIR 4

1

2

3

4

5

6

7

8

W O

U

W

G

S

L

W

S

L

G

W

S

E

R

T

ANSI/TIA/EIA T568B
PIN/PAIR ASSIGNMENT

NOTES:

1. PROVIDE REMOVABLE BLANK INSERT(S) FOR ALL UNUSED PORTS.

2. REFER TO SPECIFICATION SECTION 27 05 53 FOR ADDITIONAL INFORMATION ON LABELING REQUIREMENTS.

LEGEND

DATA

VOICE

BLANK

CAT 6 RJ-45 (ORANGE)

CAT 6 RJ-45 (WHITE)

BLANK FILLER MODULE

CONFIGURATION	FACEPLATE PORTS	FACEPLATE PORT IDENTIFICATION						NOTES
		POSITION 1 JACK TYPE	POSITION 2 JACK TYPE	POSITION 3 JACK TYPE	POSITION 4 JACK TYPE	POSITION 5 JACK TYPE	POSITION 6 JACK TYPE	
C1	2	DATA	BLANK					
C2-1	3	DATA	DATA	VOICE				

GENERAL TECHNOLOGY EQUIPMENT SCHEDULE		
THE MATERIAL LIST ABBREVIATIONS AND THE TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.		
CATALOG NUMBERS ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.		
EQUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	EQUIPMENT LIST MANUFACTURER AND MODEL
IC-IM1	INTERCOM MASTER STATION. DESK OR WALL MOUNT WITH ABS HOUSING AND LED. CALL TONE INDICATORS. 300 mA POWER CONSUMPTION. INSTALL WITHIN 4" SQUARE BACKBOX WITH PLASTER RING AND PROVIDE (1) 1" C TO NEAREST ACCESSIBLE CEILING.	AIPHONE LEF-3 OR PRE-APPROVED EQUAL
IC-IS1	INTERCOMM DOOR STATION. WALL MOUNT. ABS PLASTIC HOUSING. PUSH TO TALK OR OPEN VOICE HANDSFREE COMMUNICATION. INSTALL WITHIN 4" SQUARE BACKBOX WITH PLASTER RING. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING.	AIPHONE LE-B OR PRE-APPROVED EQUAL
SC-IO-C	INFORMATION OUTLET, CEILING MOUNT, 2 PORT COVERPLATE AS INDICATED ON DRAWINGS. "I#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE PLANS. REFER TO T-200 FOR INFORMATION OUTLET SCHEDULE FOR PIN CONFIGURATION. INSTALL INFORMATION OUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. INSTALL A 1" EMT CONDUIT 6" BEYOND BOX AND TERMINATE WITH A NYLON BUSHING. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS (SYSTIMAX M20AP SERIES OR APPROVED EQUAL)	COVERPLATE: COMMSCOPE SYSTIMAX M12L - 262 JACK: COMMSCOPE SYSTIMAX CAT6 UNJ600-OR (ORANGE) HUBBELL ORTRONICS
SC-IO-W	INFORMATION OUTLET, WALL MOUNT, 3 PORT COVERPLATE AS INDICATED ON DRAWINGS. "I#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE PLANS. REFER TO T-200 FOR INFORMATION OUTLET SCHEDULE FOR PIN CONFIGURATION. INSTALL INFORMATION OUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. INSTALL A 1" EMT CONDUIT TO TELECOM ROOM. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS (SYSTIMAX M20AP SERIES OR APPROVED EQUAL)	COVERPLATE: COMMSCOPE SYSTIMAX M13L - 262 JACK: COMMSCOPE SYSTIMAX CAT6 UNJ600-OR (ORANGE) UNJ600-WH (WHITE) HUBBELL ORTRONICS



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Relocation

sheet title:

TECHNOLOGY DETAILS, RISERS
AND SCHEDULES

project number: sheet number:
WSU : 00

T-200

FOR BIDS